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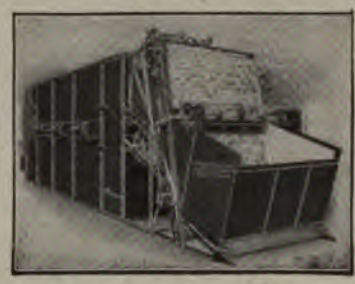
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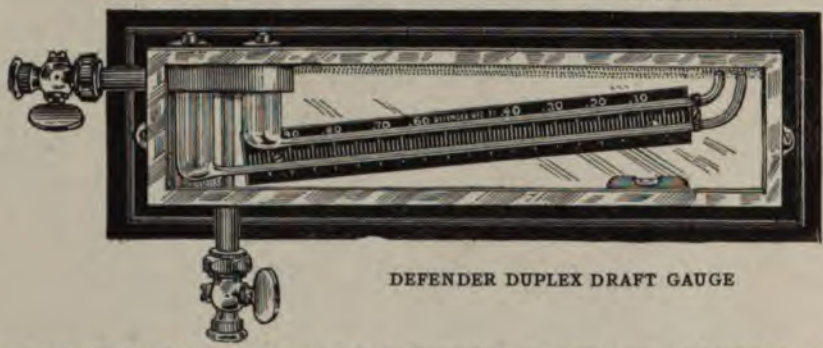
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As usual, all information has been secured from direct sources. Listings of firms, individuals, institutions and products have been included as heretofore without charge. This policy offers the most satisfactory plan to meet the requirements of the subscribers in the effort to establish the ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES as the most dependable publication of its character in this field in our opinion.

The general upset condition of the printing trades has delayed the publication of the third edition, but it is hoped that the importance of the information placed at the disposal of the subscribers will make up in part for the lateness of publication.

We wish to express our hearty thanks for the advice and suggestions received from many subscribers of the previous edition; the officers and members of various technical and scientific organizations; editors of technical and scientific publications; chemists; engineers; and officers of many manufacturing concerns.

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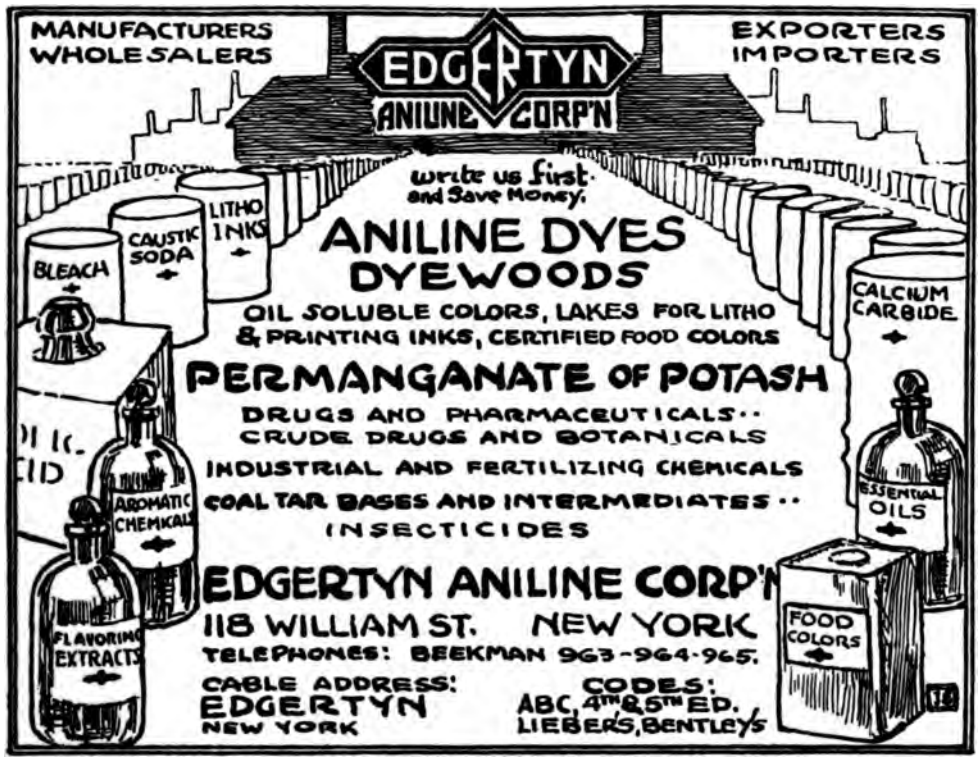
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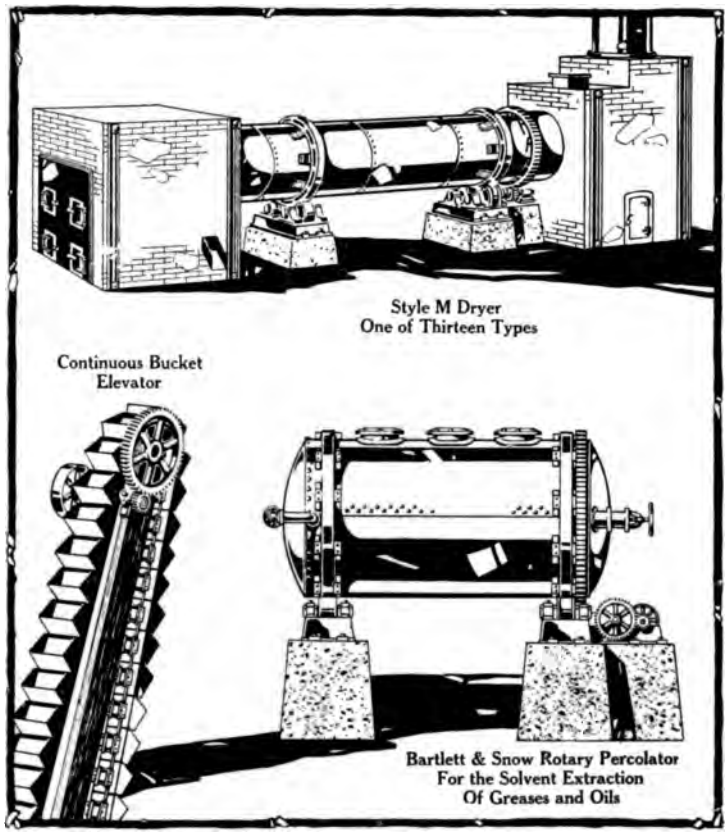
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CONTENTS

CHAPTER PAGE

I. Acids, alkalies, colors and dyes, drug products, explosives, extracts, fertilizer constituents, oils, preservatives, raw materials, salts, synthetic products, and many other chemicals essential for laboratory, technical and industrial purposes. Each product is listed alphabetically. The names of manufacturers and dealers are listed geographically and grouped alphabetically under each product listed 1

II. An alphabetic arrangement of the names of manufacturers and dealers appearing in Chapter I 211

III. Chemical and chemical engineering apparatus, mechanical equipment, machinery and mechanical supplies. Each product is listed alphabetically. The names of manufacturers and dealers are listed geographically and grouped alphabetically under each product listed 236

IV. An alphabetic arrangement of the names of manufacturers and dealers appearing in Chapter III 515

V. I. Analytical and Consulting Chemists. II. Chemical Engineers. Listed geographically and grouped alphabetically 548

VI. Laboratories. I. Industrial Laboratories. II. Institutional Laboratories. III. Federal and State Laboratories. IV. Municipal Laboratories. V. Commercial Laboratories 570

VII. Technical and scientific societies, United States and foreign, allied to the chemical field. Listed alphabetically 602

VIII. Publications. Technical and scientific journals, United States and foreign. Important books 1919. Listed alphabetically 607

IX. News and Notes, 1919. Listed alphabetically 645

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N. Y., Brooklyn
Miner-Edgar Co., 52 Warren St.
Robinson Bros., Montrose and Seneca Aves.
N. Y., New York City
*Bredt & Co., F., 240 Water St.
*Canada Carbide Sales Co., Inc., 30 Church St.
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
*Fairbanks, Morse & Co., 30 Church St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
*Herman & Herman, Inc., 6 Church St.
*Hirsh & Son, L., 368 Greenwich St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
Kalbfleisch Corp., 31 Union Sq., W.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row.
*Williamson & Co., 120 Broadway
United Aniline & Chemical Works. Inc., 377 Broadway
United States Industrial Chemical Co., 27 William St.
N. Y., Troy
Thompson Sons & Co., John L.
Ohio, Cleveland
Cleveland Cliffs Iron Co., Rockefeller Bldg.
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Sherwin-Williams Co., 601 Canal Road
Pa., Bradford
Nusbaum Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Lennig & Co., Chas., 112 S. Front St.
Penna. Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co.
Pa., Pittston
Wyoming Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., Inc.
*Lewis, John D., 1209 Turks Head Bldg.

Acid, Acetic, Anhydrous

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Acid, Acetic, Glacial

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
*Echavarria & Co., R., 8 Bridge St.

Acid, Acetic, U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Acetyl Salicylic (Aspirin)

England, London
*American Commerce Co., Ltd., The, 19 St. Bride St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works
Monsanto Chemical Works, 2nd St. and LaFayette Ave.

Acid, Acytyl Salicylic (Aspirin) —*cont.*

N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Bayer Co., Inc., 117 Hudson St.
*Drug & Dyestuff Corp., 120 Broadway
Greeff & Co., R. W., Inc., 80 Maiden Lane
*Hemingway, Inc., Frank
Hoffman-LaRoche Chemical Works
Heyden Chemical Works, 135 William St.
Miller, J. Augustus, 233 Broadway.
N. Y., Newark
Stuart & Co., C. H.
N. Y., Syracuse
Semet-Solvay Co.

Acid, Anhydride Phthalic

Pa., Philadelphia
Harmer Laboratories Co.

Acid, Anthranilic

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Ohio, Youngstown
Youngstown Chemical Co., Sycamore St.

Acid, Arsenic

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Greef & Co., R. W., Inc., 80 Maiden Lane.
*F. Hemingway, Inc., Frank
Innis, Speiden & Co., Inc., 46 Cliff St.
*Sloan & Russell, 132 Nassau St.
*Tennant Sons & Co., C., 100 William St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ohio, Cleveland
Harshaw Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Arsenious

N. Y., New York City
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Battery

N. Y., Buffalo
Contact Process Co.
N. Y., New York City
General Chemical Co., 25 Broad St.
Pa., Warren
Riverside Acid Works

Acid, Benzoic

Del., Wilmington
Du Pont, Nemours Co., E. I.
England, London
*American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Hancock & Sons, John F., 4 S. Howard St.
Mich., Midland
Dow Chemical Co.
N. J., Bayonne
Standard Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. Y., Hastings-On-Hudson
Zinsser & Co.
N. Y., Newark
Stuart & Co., C. H.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
American Aniline Products Co., Inc., 15 E. 12th St.
*Baker & Bro. H. J., 81 Fulton St.
Chemical Co. of America, Inc., 28 Platt St.
*Chromos Chemical Co., The, Aeolian Hall
Edgertyn Aniline Corp., 118 William St.
*Halle-Perris Trading Corporation, 24 State St.
Heyden Chemical Works, 135 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Mertz & Co., Inc., H. A., 122 Hudson St.
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., 21 Burling Slip
Rector Chemical Co., 2 Rector St.
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.

Acid, Benzoic—*cont.*

N. Y., Niagara Falls
Niagara Alkali Co.
N. Y., Schenectady
Organic Products Corporation
Ohio, Sandusky
Hord Color Products Co., The, S. Columbus Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Beta Napthol Disulphonic

Pa., Philadelphia
Harmer Laboratories Co.

Acid, Beta Napthol Sulphonic

R. I., Providence
Agawam Chemical Works, 531 Grosvenor Bldg.

Acid, Boracic (*see Acid, Boric*)

Acid, Boric

Cal., Oakland
Pacific Coast Borax Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Del., Wilmington
Du Pont, Nemouss Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Thorkildsen-Mather Co., Harris Trust Bldg.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
Cooper & Co., Chas., 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Johnson & Johnson, 100 William St.
Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., 100 William St.
Pacific Coast Borax Co., 100 William St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Acid, 2: 6: (Broenner)

New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Acid, Brombenzoic

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Burno

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Acid, Butyric

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
General Chemical Co., 25 Broad St.
Lehn & Fink, Inc., 120 William St.
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Cacodylic

N. Y., New York City
*Fougera & Co., E., 90 Beekman St.
Rector Chemical Co., 2 Rector St.

Acid, Camphoric

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Carbolic (*see Phenol*)

Acid, Carbonic (*see Carbon Dioxide*)

Acid, Chlorsulphonic

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Acid, Chromic

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 82 Beekman St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Cinnamic

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Florasynth Laboratories, Inc., 231 Pearl St.
Lehn & Fink, Inc., 120 William St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 21 Burling Slip
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Cinnamic, C. P. (R)

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Acid, Citric

Cal., Whittier
Citrus By-Products Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
*Echavarria & Co., R., 8 Bridge St.
*Herrick-Voigt Chemical Corporation, 1 Liberty St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Lueders & Co., Geo., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 100 William St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
*Rockhill & Vietor, 22 Cliff St.
*Tennant, C., Sons & Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
*Lewis, John D.

Acid, Cresotinic, Tech.

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Acid, Cresylic (*see also Cresol*)

England, Darlington
Parkin, Ness & Co., Quebec St.
Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., Moline
Lewis, F. J., Mfg. Co.
Ind., Indianapolis
Republic Creosoting Co., Merchants Bank Bldg.
N. J., Bloomfield
*Condensite Co. of America
N. J., Elizabeth
Bayway Chemical Co., Bayway
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., The, 17 Battery Pl.
Bush, Beach & Gent, Inc., 80 Maiden Lane
*Jordan, William E., 11 Cliff St.
*Ketchum & Co., 65 Fulton St.
National Aniline & Chemical Co., 100 William St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Richmond Products Co., 32 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., The, 2 Cliff St.
Ohio, Cincinnati
Chatfield Mfg. Co., The
R. I., Providence
*Lewis, John D.
Wash., Tacoma
Standard Chemical Co.

Acid, Delta

N. Y., New York
*Drug & Dyestuff Corporation, 120 Broadway

Acid, Dichloracetic

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Acid, Diethylbarbituric

Ill., Chicago
Abbott Laboratories

Acid, Dipping

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cincinnati
Chatfield Mfg. Co., The

Acid, Electrolytic

Colo., Denver
Western Chemical Mfg. Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
General Chemical Co., 25 Broad St.
Kalbfleisch Corporation, 31 Union Sq., W.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Warren
Riverside Acid Works

Acid, Fatty

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Virginia Red Oil Products Corporation
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway
National Oil Products Co., 220 Broadway
Southern Cotton Oil Co., 120 Broadway
Southern Oil & Chemical Co., 15 Park Row
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Ohio, Dayton
Economy Soap Products Co., N. Irwin St.
Pa., Philadelphia
Baugh & Sons Co.

Acid, Formic

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. J., Jersey City
Onyx Oil & Chemical Co.
N. Y., New York City
Herrick-Voigt Chemical Corporation, 1 Liberty St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Ketchum & Co., 65 Fulton St.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Kalle Color & Chemical Co., 530 Canal St.
Katzenbach & Bullock Co., 100 William St.
Merck & Co., 45 Park Pl.
U. S. Industrial Chemical Co., 27 William St.
N. Y., Syracuse
Rosebrugh Chemical Corporation, 1618 N. Salina St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
*Lewis, John D.

Acid, G.

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Gallic

Conn., Hartford
Eastern Chemical Works
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., Hastings-On-Hudson
Zinsser & Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 21 Burling Slip
*Schering & Glatz, 150 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Gallic, Technical

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Acid, Gamma

N. Y., New York City
Chemical Co. of America, 176 Front St.
* Rector Chemical Co., Inc., 2 Rector St.

Acid, H

Ill., Quincy
Monroe Color & Chemical Co., N. Front St.
N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.
Edgertyn Aniline Corp., 118 William St.
*Herman & Herman, Inc., 6 Church St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Rector Chemical Co., 2 Rector St.
*Williamson & Co., 120 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Hydrobromic

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 80 Beekman St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
W. Va., Malden
Dickinson & Co., J. Q.

Acid, Hydrochloric

Cal., San Francisco
Mountain Copper Co., 332 Pine St.
San Francisco Chemical Co., 332 Pine St.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co., The
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, London
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Ill., Danville
Hegeler Bros.
Ill., LaSalle
Matheson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Me., Portland
Brown Co.
Md., Baltimore
Davison Chemical Co., South and German Sts.
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Thomson Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
Mich., Midland
Dow Chemical Co.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
Commercial Acid Co., Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Bloomfield
Condensite Co. of America
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Robinson Bros., Montrose and Seneca Aves.
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Road near Lee
N. Y. Niagara Falls
Niagara Alkali Co., Buffalo Ave. and Union St.
N. Y., New York City
Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Co., 61 Broadway
*Cooper & Cooper, 309 Broadway
Cooper & Co., Chas., 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
*Halle-Perris Trading Corporation, 24 State St.
Hooker Electrochemical Co., 40 Wall St.
Kalbfleisch Corporation, 31 Union Sq., W.

Acid, Hydrochloric—*cont.*

N. Y., New York City—cont.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Marell Chemical Co., Inc., 25 Beaver St.
Merck & Co., 45 Park Pl.
New Jersey Zinc Co., 160 Front St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
*Thompson Sons & Co., John L.
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
Lennig & Co., Chas., 112 S. Front St.
Penna. Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish St.
Pa., Warren
Riverside Acid Works
R. I., Providence
Arnold, Hoffman & Co.
Tenn., Kingsport
Union Dye & Chemical Corporation

Acid, Hydrochloric, C. P.

N. Y., New York City
Kalbfleisch Corporation, 31 Union Sq., W.

Acid, Hydrocyanic

N. Y., New York
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Hydrofluoric

Conn., Naugatuck
Naugatuck Chemical Co., The
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Md., Baltimore
Thomson Chemical Co., Race and Winder Sts.
Mass., Boston
Cochrane Chemical Co.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Sq.
Katzenbach & Bullock Co., 100 William St.
*Ketchum & Co., 65 Fulton St.
Merck & Co., 45 Park Pl.
Southern Oil & Chemical Co., 15 Park Row
U. S. Metals Refining Co., 42 Broadway
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin, Co., 317 Electric Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Warren
Riverside Acid Works
Pa., York
Hydrofluoric Mfg. Co.

Acid, Hydrofluosilicic

Md., Baltimore
Davison Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Acid, Hypophosphorous

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Lactic

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., Peoria
Woolner Distilling Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
N. J., Jersey City
Onyx Oil & Chemical Co.

Acid, Lactic—*cont.*

N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Pfaltz & Bauer, 330 Pearl St.
Merck & Co., 45 Park Pl.
Southern Oil & Chemical Co., 15 Park Row
Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
Pa., Bradford
American Acid & Alkali Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Linoleic

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Acid, Metanilic

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip

Acid, Meta Titanic

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Acid, Mixed

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., Buffalo
Contact Process Co., Abbott Road, nr. Lee
N. Y., New York City
Butterworth-Judson Co., 61 Broadway
Cooper & Co., Chas., 194 Worth St.
General Chemical Co., 25 Broad St.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Acid, Molybdic

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Mine & Smelter Supply Co.
Del., Wilmington
Mineral Products Mfg. Co.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
N. J., Belleville
Rare Metal Products Co., Cortland St.
N. Y., New York City
Holz, Herman A., 17 Madison Ave.
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 80 Beekman St.
N. Y. Schenectady
Organic Products Corporation
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Primos
Primos Chemical Co.

Acid, Monochloracetic

Mich., Midland
Dow Chemical Co.
Pa., Philadelphia
Harmer Laboratories

Acid, Monosulfonic, F 2 : 7

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Acid, Monosulphonic, Alpha Naphthol

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Acid, Monosulphonic, Alpha Naphthylamine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Acid, Muriatic (*see Acid, Hydrochloric*)

Acid, Naphthionic

Del., Wilmington
Du Pont Chemical Works
N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. Y., New York City
Aniline Dyes & Chemicals, Inc.,Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
Harmer Laboratories Co.
Pa., Reading
Althouse Chemical Co.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Napthol Disulphonic

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Napthylamine Disulphonic

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Neville and Winther's

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, 1, 3, 6

Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Nitric

Cal., San Francisco
Mountain Copper Co., 332 Pine St.
San Francisco Chemical Co., 332 Pine St.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co., The
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, London, E. C. 3
Berk & Co., Ltd., F., W. 1 Fenchurch Ave.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Ill., Danville
Hegeler Bros.
Ill., Depue
Mineral Paint Zinc Co.
Ill., LaSalle
Matheson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Ill., Springfield
National Zinc Co.
Md., Baltimore
Davison Chemical Co., South and German Sts.,
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
*Salzgeber, George H., 109 St. George St.
N. J., Bound Brook
King Chemical Co.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Robinson Bros., Montrose and Seneca Aves.
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Acid, Nitric—*cont.*

N. Y., New York City—cont.
*Baker & Bro., H. J., 81 Fulton St.
*Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Corp., 61 Broadway
*Cooper & Cooper, 309 Broadway
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
*Independent Chemical Co., 122 West St.
Kalbfleisch Corp., 31 Union Sq. W.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
Southern Oil & Chemical Co., 15 Park Row
*Willamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
Thompson Sons & Co., John L.
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
Lennig, Chas., & Co., 112 S. Front St.
Penna. Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Warren
Riverside Acid Works
R. I., Providence
Arnold, Hoffman & Co.
American Nitrogen Products Co., Securities Bldg.
Tenn., Kingsport
Federal Dyestuff & Chemical Corporation

Acid, Nitrohydrochloric

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Nucleinic

Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Acid, Oleic

Ill., Chicago
Armour Fertilizer Works
Morris & Co.
Md., Baltimore
Virginia Red Oil Products Corp.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Oil Products Co., 220 Broadway
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Ohio, St. Bernard
Werk Co., M.

Acid, Oxalic

Cal., San Francisco
*Dill-Croset, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 W. Austin Ave.
Victor Chemical Co., 343 S. Dearborn St.
Md., Baltimore
*Bloede Co., Victor G.
*Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*Avery Chemical Co., 88 Broad St.
*United Indigo & Chemical Co., 176 Federal St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Charlotte
*Charlotte Drug Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
*Robinson Bros., Montrose and Seneca Ave.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
*Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
*Freeman & Co., R. B., 96 Wall St.

Acid, Oxalic—*cont.*

N. Y., New York City—cont.
*Herrick-Voigt Chemical Corporation, 1 Liberty St.
*Holliday, Read & Sons, Ltd., 160 Franklin St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Marden, Orth & Hastings Corp'n, 61 Broadway
*Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 21 Burling Slip
*Riker, J. L. & D. S., 19 Cedar St.
*Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Sons, E. R., 82 Beekman St.
Tennant Sons & Co., C., 100 William St.
*U. S. Industrial Alcohol Co., 27 William St.
*Van Brunt & Co., J. A., 114 John St.
*White Tar Co., Cliff and John Sts.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
*Thompson, Sons & Co., John L.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Bradford
American Acid & Alkali Co.
Pa., Easton
*Baker & Adamson Chemical Co.
Pa., Philadelphia
*Powers-Weightman-Rosengarten Co.
*Smith, Kline & French Co.
R. I., Providence
*Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blytheswood Sq.

Acid, Perchloric

Mich., Midland
Dow Chemical Co.
N. Y., Batavia
Genesee Chemical Co.

Acid, Phosphoric

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
Victor Chemical Co., 343 S. Dearborn St.
Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd. St.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Berlin Aniline Works, 213 Water St.
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., 46 Cliff St.
*Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Magnus, Mabee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Pl.
Southern Oil & Chemical Co., 15 Park Row
United Aniline & Chemical Works, Inc., 377 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Rumford Chemical Works

Acid, Phosphoric, Anhydrous

(*see Phosphorus Pentoxide*)

Acid, Phosphoric, Glacial

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Phosphotungstic

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Acid, Phthalic

Cal., Berkeley
Catalytic Chemical Co.
Ill., Chicago
Gas Oil Co. of Indiana, People's Gas Bldg.
N. Y., Hastings-on-Hudson
Zinsser & Co.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Chromos Chemical Co., Inc., Aeolian Hall
*Rector Chemical Co., Inc., 2 Rector St.
Squibb & Sons, E. R., 82 Beekman St.
*Williamson & Co., 120 Broadway

Acid, Phthalic—*cont.*

Ohio, Youngstown
Youngstown Chemical Co., Sycamore St.
Pa., Philadelphia
Harmer Laboratories Co.

Acid, Picramic

Del., Wilmington
Du Pont Chemical Works
N. Y., New York City
*Hemingway, Inc., Frank, 115 Broadway
N. Y., Hastings-on-Hudson
*Zinsser & Co.

Acid, Picric

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. J., Perth Amboy
May, F. L., Chemical Co.
Ingersoll-Rand Co.
N. J., Phillipsburg
Baker, J. F., Chemical Co.
N. Y., New York City
Aetna Explosive Co., 120 Broadway
Butterworth-Judson Corp., 61 Broadway
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., 644 Greenwich St.
*Williamson & Co., 120 Broadway
N. Y., Niagara Falls
Hooker Electrochemical Co.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Sandusky
Hord Color Products Co., The
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid-Proofing Compound

N. J., Lincoln
Atlas Mineral Products Co.

Acid-Proof Ware Compound, Jointing

N. J., Lincoln
Atlas Mineral Products Co.

Acid, Propionic

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
General Chemical Co., 25 Broad St.

Acid, Prussic (*see Acid, Hydrocyanic*)

Acid, Pyrogallic

Conn., Elmwood
Eastern Chemical Works
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
*Klipstein & Co. A., 644 Greenwich St.
Hoffman-La Roche Chemical Co., 440 Washington St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Harmer Laboratories Co.
Powers-Weightman-Rosengarten Co.

Acid, Pyrogallic, U.S.P.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Huisking, Inc., Chas. L., 5 Platt St.

Acid, Pyroligneous

Ga., Savannah
National Rosin Oil & Size Co.
La., New Orleans
American Turpentine & Tar Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Belleville
Eastwood Chemical Co.
N. Y., New York City
General Naval Stores Co., Inc., 90 West St.
Georgia Pine Turpentine Co of New York, 160 Perry St.
*Klipstein & Co., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
N. C. Wilmington
Spirittine Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
Arnold, Hoffman & Co.

Acid, R

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid Red, 4B and 6B: (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Rd.

Acid, Salicylic

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Baker & Bro., H. J., 81 Fulton St.
Calco Chemical Co., Woolworth Bldg.
Chemical Co. of America, Inc., 28 Platt St.
*Drugs & Dyestuff Corp., 120 Broadway
Edgertyn Aniline Corp., 118 William St.
*Hemingway, Inc., Frank, 115 Broadway
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Johnson & Johnson, 100 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
*Rector Chemical Co., 2 Rector St.
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., North Tonawanda
Synthetic Mfg. Co.
N. Y., Schenectady
Organic Products Corporation
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
Merrell Chemical Co., Wm., 5th and Pike Sts.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.

Acid, Selenious

N. Y., New York City
American Smelting & Refining Co., 120 Broadway

Acid, Stearic

Ill., Chicago
*Clark, Frank C., 316 W. Kinzie St.
*Daigger & Co., A., 54 W. Kinzie St.
Morris & Co.
Swift & Co.
Md., Baltimore
Virginia Red Oil Products Corp.
Mont., Helena
Perry & Co., C. T.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Bromund Co., E. A., 356 W. Broadway
Century Stearic Acid Candle Works, 380 South St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
*Elbert & Co., Produce Exchange
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth Hasting Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Oil Products Co., 220 Broadway
*Pfaltz & Bauer, Inc., 300 Pearl St.
Plymouth Organic Laboratories, 65 Ann St.
*Randell, F. L., & Co., 197 Pearl St.
*Rockhill & Vietor, 22 Cliff St.
*Smith & Nichlos, 121 Maiden Lane
*Standard Wax & Import Co., 95 William St.
*Strohmeyer & Arpe Co., 139 Franklin St.
Van Brunt & Co. Inc., J. A., 114 John St.
*Van Dyk, L. A., 90 W. Broadway
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cincinnati
Emery Candle Co., 414 Walnut St.
*Harkness & Cowing Co., Murray Ave. and Carthage Peak
Proctor & Gamble Co., Gwynne Bldg.
Ohio, St. Bernard
*Werk Co., M.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Martin, D. B., Co.
Pa., Pittsburgh
Falk Co.

Acid, Storage Battery (*see Electrolyte*)

Acid, Succinic

Ill., Peoria
Woolner & Co.

Acid, Succinic—*cont.*

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Sulphanilic

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America,28 Platt St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Rector Chemical Co., 2 Rector St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Powers-Weightman-Rosengarten Co.

Acid, Sulphonic Beta Napthol-G

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Beta Napthol-R

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Napthalene

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Napthol

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphonic Napthylamine

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Acid, Sulphuric

Ala., Birmingham
Birmingham Fertilizer Co.
Ala., Montgomery
Alabama Chemical Co.
Ala., Troy
Standard Chemical & Oil Co.
Ariz., Douglas
Calumet & Arizona Copper Co.
Ark., Little Rock
Arkansas Fertilizer Co.
Cal., Berkeley
Pacific Guano & Fertilizer Co.
Cal., San Francisco
Barbour Chemical Works
Mountain Copper Co., Ltd., 332 Pine St.
Stauffer Chemical Co., 624 California St.
Canada, Drummonville, Quebec
Aetna Explosives Co.
Canada, Sault Ste. Marie
Algoma Steel Corp., Ltd.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts. (60°, 66°, 98° Oleum)
Colo., Pueblo
Norcross Chemical Co.
Conn., Naugatuck
Naugatuck Chemical Co. (66°)
Del., Wilmington
E. I. duPont de Nemours Co.
England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
England, Manchester
Spence & Sons, Ldt., Peter
Fla., Jacksonville
Wilson & Toomer Fertilizer Co.
Ga., Atlanta
Marietta Fertilizer Co.
Swift & Co., Fertilizer Works
Ga., Augusta
Southern States Phosphate & Fertilizer Co.
Ga., Macon
McCabe Bros.
Ga., Newman
Coweta Fertilizer Co.
Ga., Savannah
Barker Chemical Co. (60° and 66°)
Phosphate Mining Co.
Reliance Fertilizer Co. (60° and 66°)
Savannah Guano Co.
Southern Fertilizer & Chemical Co.
Willcox-Ives & Co.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Mineral Point Zinc Co., 140 S. Dearborn St.
Victor Chemical Works
Ill., Danville
Hegeler Bros.

Acid, Sulphuric—*cont.*

Ill., East St. Louis
American Zinc Co. of Illinois
Commercial Acid Co.
Granby Smelting & Refining Co.
Ill., LaSalle
Matthieson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Ky., Louisville
Federal Chemical Co.
La., New Orleans
New Orleans Acid & Fertiliser Co.
Md., Baltimore
Baugh Chemical Co.
Davison Chemical Co.
*Maryland Chemical Co., Columbia Ave. and B. &. O. R. R.
Rasin Monumental Co., National Marine Bank Bldg.
Standard Acid Works
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
American Zinc, Lead & Smelting Co., 55 Congress St.
Avery Chemical Co., 88 Broad St.
BradleyFertilizer Works, 92 State St.
Cochrane Chemical Co.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
Brewer & Co.
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
Michigan Carbon Works, Carbon and Forman Aves.
Miss., Tupelo
Tupelo Fertilizer Factory
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
American Zinc, Lead & Smelting Co., Pierce Bldg.
Commercial Acid Co., 1916 Boatmen's Bank Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
Lambert Chemical Co., Railway Exchange Bldg.
N. J., Bound Brook
King Chemical Co.
N. J., Jersey City
Mulane Chemical Co.
N. J., Newark
Listers Agri. Chemical Works, Lister Ave.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. J., Warners
Ammo-Phos Corporation, The
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Rd. near Lee
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Cyanamid Co., 511 Fifth Ave.
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
*Baker & Bro., H. J., 81 Fulton St.
Butterworth-Judson Co., 61 Broadway
*Cooper & Cooper, 309 Broadway
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
*Halle-Perris Trading Corporation, 24 State St.
*Herman & Herman, Inc., 6 Church St.
*Independent Chemical Co., 122 West St.
International Agricultural Corp., 165 Broadway
Kalbfleisch Corp., 31 Union Sq. W.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Marell Chemical Co., Inc., 25 Beaver St.
Merck & Co., 45 Park Pl.
Mutual Chemical Co. of America, 55 John St.
New Jersey Zinc Co., 160 Front St.
*Peters, White & Co., 55 John St.
Southern Oil & Chemical Co., 15 Park Row.
Union Seed & Fertilizer Co., 65 Broadway
*Williams & Son, Inc., J. T., 100 Broadway
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
N. C., Charlotte
Combee Fertilizer Co.
N. C., Wilmington
Navasse Guano Co.

Acid, Sulphuric—*cont.*

Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Globe Chemical Co.
Jarecki Chemical Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
Grasselli Chemical Co.
Ohio, Columbus
Farmers Fertilizer Co., The
Pa., Bradford
American Alkali & Acid Co.
Pa., Donora
American Steel & Wire Co.
United States Steel Corp.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Powers-Weightman-Rosengarten Co.
Lennig, Charles & Co., Bridesburg
South Philadelphia Fertilizer Works
United Gas Improvement Co.
Pa., Pittsburgh
American Zinc & Chemical Co.
Pa., Warren
Riverside Acid Works (50°, 60° and 66°)
Pa., York
York Chemical Works
S. C., Charleston
Anderson Phosphate & Oil Co.
Etiwan Fertilizer Co.
McCabe Chemical Co.
Tenn., Copperhill
Tennessee Copper Co.
Tenn., Isabella
Ducktown Sulphur, Copper & Iron Co., Ltd.
Tenn., Nashville
Read Phosphate Co.
Texas, Sugarland
Sugarland Mfg. Co.
Utah, Garfield
Garfield Smelting Co.
Utah Copper Co.
Va., Norfolk
Atlantic Chemical Corporation
Columbia Guano Co.
Royster Guano Co., F. S.
Va., Richmond
Richmond Guano Co., 705 Traveler's Bldg.
Virginia-Carolina Chemical Co.
W. Va., Fairmont
Fairmont Chemical Co.

Acid, Sulphuric, C.P.

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
N. Y., Buffalo
Contact Process Co.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Kalbfleisch Corporation, 31 Union Sq., W.

Acid, Sulphuric, Fuming

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Merrimac Chemical Co.
Mo., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
*Alexander & Co., C. S., 61 Broadway
Butterworth-Judson Co., 61 Broadway
General Chemical Co., 25 Broad St.
New Jersey Zinc Co., 160 Front St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Penna. Salt Mfg. Co.

Acid, Sulphurous (*see also Sulphur Dioxide*)

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, London
Berk & Co., F. W., Fenchurch Ave.
Md., Baltimore
Hancock & Son, John F., 4 S. Howard St.
N. J., Bound Brook
King Chemical Co.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
*Beggs & Co., E. J., 92 William St.
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Chas., 194 Worth St.
Klipstein & Co., A., 644 Greenwich St.
Williamson & Co., Inc., D. D., 86 Fulton St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Gemmill & Co., Wm. N., 142 Queen St.

Acid, Sulphurous, Liquefied Anhydrous

Wis., Marinette
Ansul Chemical Co.

Acid, Tannic

England, Manchester
Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Long Island City
Oakes Mfg. Co
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Bredt & Co., F., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Co., 440 Washington St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalle & Co., 530 Canal St.
*Katchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
*Pfizer & Co., Charles, 81 Maiden Lane
Southern Oil & Chemical Co., 15 Park Row
Squibb & Sons, E. R., 82 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Warner Chemical Co., 52 Vanderbilt Ave.
White Tar Co., 4 Cliff St.
United Aniline & Chemical Works, Inc., 377 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
Harmer Laboratories Co., 1704 Market St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co.
Pa., Pittstown
Luzerne Chemical Co.
R. I., Providence
Arnold, Hoffman & Co.
*Lewis, John D.

Acid, Tartaric

Cal., San Francisco
American Cream Tartar Co., 624 California St.
Stauffer Chemical Co.
England Accrington
Phoenix Chemical Co., Ltd., Jackson St., Church
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
*Walter Co., Edw., J., 803 American Bldg.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Bredt & Co., F., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
*Herrick-Voigt Chemical Corporation, 1 Liberty St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 200 Water St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Tartar Chemical Co., 135 William St.
*Tennant Sons & Co., C., 100 William St.
White Tar Co., 4 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co.
*Lewis, John D.

Acid, Titanic (Meta)

Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Sq.

Acid, Toluic (o)

N. Y., New York City
Merck & Co., 45 Park Pl.

Acid, Trichloracetic

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Tungstic

Colo., Boulder
Black Metal Reduction Co.
Tungsten Products Co.
Colo., Denver
U. S. Rare Minerals Co.
Del., Wilmington
Mineral Products Mfg. Co., Inc.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Primos
Primos Chemical Co.

Acid, Valeric

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
General Chemical Co., 25 Broad St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, White

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broad St.

Acid, Wood

Mo., St. Louis
*Salzgeber, George H., 109 St. George St.
N. Y., Binghamton
Corbett & Co., M. J.
Corbett & Stuart
N. Y., Methol
Leighton Co., Arthur
Pa., Susquehanna
Pennsylvania Chemical Co.
Wayne Chemical Co.

Acid, Yellow (Wool)

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Acids, Coal Tar, Crude

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Acids, Mineral

Ohio, Cincinnati
Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Adhesives

Conn., Danbury
Connecticut Glue Co.
Ill., Chicago
Armour Glue Works, 3130 Benson St.
Clarkson Glue Co, 3259 Shelds Ave.
Cudahy Packing Co.
Darling & Co., Union Stock Yards
Hirsh, Hall & Co., 111 W. Washington St.
Morris & Co., Union Stock Yards
National Glue Co., Railway Exchange Bldg.
Swift & Co., Union Stock Yards
Union Casein Co., 601 W. 80th St.
Wilson & Co., 41st and Ashland Ave.
Md., Baltimore
Bloede Co., Victor G.
Mass., Ayer
Feculose Co. of America
Mass., Boston
Carter's Ink Co., 1st and Athenaeum Sts.
Commonwealth Glue Co., 40 N. Market St.
Mass., Gloucester
Russia Cement Co.
Mo., St. Louis
Amercan Glue Co., 410 Elm Ave.
Reardon Glue Mfg. Co., 127 Clinton St.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Casein Mfg. Co., 13 Park Row
Milligan & Higgins Glue Co., 222 Front St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Glue & Gelatine Works, 2 West End Ave.
National Gum & Mica Co., 59th and 11th Ave
Peter Cooper's Glue Factory, 28th and 11th Ave.
Ohio, Cincinnati
Adhesive Products Mfg. Co., 1724 Central Ave.

Aerolacq

N. Y., New York
Chemical Co. of America, 28 Platt St.

Agar Agar

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
N. Y., New York City
*American Trading Co., 25 Broad St.
*Eimer & Amend, 205-211 Third Ave.
*Halle-Perris Trading Corporation, 24 State St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Klipstein & Co., A., 544 Greenwich St.
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
Mitsui & Co., 25 Madison Ave.
National Gum & Mica Co., 59th and 11th Ave.
*Rockhill & Vietor, 22 Cliff St.
*Schieffelin & Co., 170 William St.
*Zinkeisen & Co., 135 William St.
Pa., Philadelphia
*Smith, Kline & French Co.

Albasol

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Alboline

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Albumen

Cal., San Franscisco
American Trading Co.
Dill-Crossett, Inc.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mich., Detroit
Digestive Ferments Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Arnhold, Karberg & Co., 21 State St.
*Fuerst Bros. & Co., 2 Stone St.
*Innis, Speiden & Co., 46 Cliff St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
National Milk Co., 11 Pine St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cincinnati
Berghäusen Chemical Co., E., 307 E. 2d St.

Albumin, Mayer

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Alcohol, Amyl (*see also Oils, Fusel*)

Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
Du Pont Chemical Works
D. C., Washington
Corby Co., The
Ill., Chicago
Daigger & Co., A., 54 W. Kinzie St.
Ill., Peoria
Woolner Distilling Co.
Ind., Lawrenceburg
Rossville Co.
Walsh & Co., James
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Carlstadt
Franco-American Chemical Co.
N. J., Wallington
Anderson Chemical Co.
N. Y., New York City
American Alcohol Co., Inc.
Celluloid Zapon Co., 200 5th Ave.
*Sloan & Russell, Inc., 132 Nassau St.
U. S. Industrial Alcohol Co., 27 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Williamson & Co., 120 Broadway
Pa., Pittsburgh
Hamburger Distillery, Limited, 706 Arrott Bldg.
Spain, Barcelona
*Sociedad Anonima Monegal

Alcohol, Amyl, Refined

Ill., Chicago
Van Schaack Bros. Chemical Works

Alcohol, Benzyl

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Alcohol, Butyl

N. Y., New York City
U. S. Industrial Alcohol Co., 27 William St.

Alcohol, Caprylic

Pa., Philadelphia
*Thomas, Arthur H. Co., W. Washington Sq.

Alcohol, Denatured

Cal., San Francisco
Classen Chemical Co.
D. C., Washington
Corby Co., The
Ill., Chicago
Central Commercial Co.
Ill., Peoria
Clarke Bros. & Co.
Woolner Distilling Co.
Ind. Lawrenceburg
Rossville Co.
La., New Orleans
American Alcohol Co.
Jefferson Distilling & Denaturing Co.
Md., Baltimore
Canton Corn Products Co.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., Buffalo
Wood Products Co.
N. Y., Hancock
Kerry Co., Thomas
N. Y., New York City
Alcohol Utilities Co., 40 Exchange Pl.
*American Distributing Co., 750 Washington St.
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Fleischmann Co., 699 Washington St.
Georgia Pine Turpentine Co. of New York, 158 Perry St.
*Gray & Co., William S., 76 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
Industrial Chemical Co., 200 Fifth Ave.
International Alcohol Corporation, 59 Pearl St.
*Salomon & Bro., L. A., 216 Pearl St.
Southern Oil & Chemical Co., 15 Park Row
Squibb & Sons, E. R., 78-80 Beekman St.
U. S. Industrial Alcohol Co., 27 William St.
Webb & Son, James A., 50 Stone St.
*Williamson & Co., 120 Broadway
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Alcohol, Ethyl

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
D. C., Washington
Corby Co., The
Ill., Pekin
American Distilling Co.
Ill., Peoria
Woolner Distilling Co.
Ind., Lawrenceburg
Rossville Co.
Walsh & Co., James
Ind., Terre Haute
Commercial Distilling Co., The
La., New Orleans
American Alcohol Co.
Louisiana Distilling Co.
Md., Baltimore
Canton Corn Products Co.
Webb & Sons, A. L., 115 E. Lombard St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
*American Distributing Co., 750 Washington St.
International Alcohol Corporation
Merck & Co., 45 Park Place
Southern Oil & Chemical Co., 15 Park Row
U. S. Industrial Alcohol Co., 27 William St.
N. Y., Waterloo
Industrial Distilling Co.
Ohio, Cincinnati
Clifton Springs Distilling Co.
Fleishmann Co., 419 Plum St.
Union Distilling Co., 3d and Race Sts.
Walsh & Co., James, Union Trust Bldg.
Ohio, Cleveland
Cleveland Cliffs Iron Co., 233 Bank St.
Harshaw, Fuller & Goodwin Co,. Electric Bldg.
Wis., Milwaukee
National Distilling Co., 79 Buffalo St.
Wash., Seattle
Rainier Products Co.

Alcohol, Grain (*see Alcohol, Ethyl*)

Alcohol, Isoamyl

Del., Wilmington
Du Pont Chemical Works
Mo., St. Louis
*Heil. Henry, Chemical Co., 210-214 S. 4th St.
Merck & Co., 45 Park Place

Alcohol, Methyl

Cal., San Francisco
Noble Electric Steel Co.
Fla., Jacksonville
Florida Wood Products Co.
Ill., Chicago
*Central Commercial Co.
Md., Baltimore
Webb & Son, A. L., 115 E. Lombard St.

Alcohol, Methyl—*cont.*

Mass., Boston
*Bird & Co., J. A. & W.
Merrimac Chemical Co., 32 Broad St.
Mich., Boyne City
Boyne City Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer-Diggins Co.
Mich., Detroit
Berry Bros. (Ltd.), Leib and Weight St.
Charcoal Iron Co. of America
Lake Superior Iron & Chemical Co., Union Trust Bldg.
Mich., Wells
Delta Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works
N. J., Newark
Seaboard Chemical Co.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., Buffalo
Wood Products Co.
N. Y., Hancock
Kerry Co., Thomas
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
*American Distributing Co., 750 Washington St.
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
*Gray & Co., Wm. S., 76 William St.
Industrial Chemical Co., Fifth Ave. Bldg.
*Magnus, Maybee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Place
*Salomon & Bro., L. A., 216 Pearl St.
Southern Oil & Chemical Co., 15 Park Row
U. S. Industrial Alcohol Co., 27 William St.
*Webb & Son, J. A., 52 Stone St.
N. Y., Niagara Falls
National Electrolytic Co.
Tionesta Valley Chemical Co.
N. Y., Waterloo
Industrial Distilling Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Ore., Portland
Oregon Wood Distilling Co.

Alcohol, Phenyl Ethyl

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Alcohol, Solidified

N. Y., Brooklyn
*Sternau & Co., S., 160 John St.

Alcohol, Wood (*see Alcohol, Methyl*)

Aldehyde (*see Acetaldehyde*)

Alizarine Assistant

Mass., Atlantic
*Bosson & Lane
Mass., Boston
Avery Chemical Co., 88 Broad St.
*Leyland & Co., Thos., 60 India St.
*Shaw, John, & Co., 15 Elkins St.
United Indigo & Chemical Co., Ltd., 176 Federal St.
N. J., Harrison
National Oil Products Co.
N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co.

Alizarine Colors (*see Colors and Dyestuffs*)

Alizarine Derivative

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Alizarine, Dry

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Alizarine Paste

Pa., Philadelphia
Harmer Laboratories Co.

Alkali, Pure, 85%

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Va., Saltville
Mathieson Alkali Works, Inc., The

Alkali, Tanners

Mich., Wyandotte
Ford Co., J. B.
Ill., Chicago
Abbott Laboratories, Ravenswood
N. J., Maywood
Shaefer Alkaloid Works
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
New York Quinine & Chemical Works, Ltd., 114 William St.
N.Y., Norwich
Norwich Pharmacal Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Shoemaker & Co., Robt., 201 N. 4th St.

Alkalies (*see also Soda, Sodium Hydroxide, Potassum Hydroxide*)

Cal., San Francisco
California Alkali Co.
England, Liverpool
United Alkali Co., Ltd.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*Linder & Meyer, 89 State St.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
Mich., Midland
Dow Chemical Co.
Mich., Wyandotte
Michigan Alkali Co.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. Y., Albany
Wender & Son Chemical Co., S., 135 Church St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
*Fuerst Bros. & Co., 214 Stone St.
General Chemical Co., 25 Broad St.
Hooker Electrochemical Co.
Innis, Speiden & Co., Inc., 46 Cliff St.
National Aniline & Chemical Co., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Niagara Falls
Niaraga Smelting Corp.
Castner Electrolytic Alkali Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
Globe Chemical Co., Murray Rd.
*Winkler & Bro., Isaac, 1st National Bank Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Pa., Pittsburgh
Columbia Chemical Co.
Diamond Alkali Co., 1st National Bank Bldg.
R. I., Providence
Arnold, Hoffman & Co.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.
Va., Saltville
Mathieson Alkali Works
W. Va., Charleston
Rollin Chemical Co., Inc.

Alkaloids

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
Ind., Indianapolis
Eli Lilly & Co.
Ill., Chicago
Abbott Laboratories, Ravenswood
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works
N. Y., New York City
Merck & Co., 45 Park Place.
New York Quinine & Chemical Works, Inc., 100 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

ALLOYS

Aluminium Alloys

Mass., Boston
Richards & Co., 200 Causeway St.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. J., Newark
Acieral Co. of America

Aluminium Bronze

Ohio, Marietta
Northwestern Chemical Co., The
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Alumino-Vanadium

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Standard Chemical Co.
Pa., Primos
Primos Chemical Co.

Calcium Alloys

N. Y., Niagara Falls
American Magnesium Corporation

Cerium Alloys

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Copper Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co.

Cupro-Magnesium

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Cupro-Mangano-Vanadium

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.

Cupro-Vanadium

Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Pa., Primos
Primos Chemical Co.

Ferro Alloys (*see also Specific Headings*)

Canada, Que., Shawinigon Falls
Canadian Ferro-Alloys Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Crowley Co., John A., 120 Liberty St.
Goldschmidt-Thermit Co., 120 Broadway
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
Ohio, Cincinnati
Walter-Wallingford & Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co.
Pa., Philadelphia
American Manganese Mfg. Co.
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
American Vanadium Co.
Standard Alloys Co.
Vanadium Metals Co.

Ferro-Carbon-Titanium

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Ferro-Cerium

N. Y., New York City
Electric Reduction Co.
New Process Metals Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Ferro-Chrome

Cal., San Francisco
Noble Electric Steel Co., Hewes Bldg.
D. C., Washington
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.

Ferro-Chromium

Cal., San Francisco
Noble Electric Steel Co.
Canada, Ont., Welland
Electro Metals, Ltd.
Iowa, Keokuk
Keokuk Electro Metals Co.
Pa., Montour Junction
Pittsburgh Metallurgical Co.

Ferro-Manganese

Cal., San Francisco
Noble Electric Steel Co.
Pacific Electro-Metals Co.
N.Y., New York City
American Metal Co.., Ltd., 61 Broadway
Anaconda Copper Mining Co.
Electric Reduction Co.,
*Klipstein & Co., A., 644 Greenwich St.
New Jersey Zinc Co., 55 Wall St.
Ohio, Cincinnati
Walter-Wallingford & Co.
Oregon, Portland
Western Keduction Co.
Pa., Philadelphia
Foote Mineral Co., 130 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Wash., Tacoma
Bilrowe Alloys Co.

Ferro-Manganese, 80%

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Ferro-Manganese, Low Carbon

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferro-Molybdenum

Cal., Los Angeles
Southern Reduction Co.
Canada, Orillia, Ontario
International Molybdenum Co., Ltd.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Primos
Primos Chemical Co.

Ferro-Phosphorus

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Ferro-Silicon

Cal., San Francisco
Noble Electric Steel Co.
Canada, Ont., Welland
Electro Metals, Ltd.
Iowa, Keokuk
Keokuk Electro Metals Co.
Md., Baltimore
Shawinigan Electro Products Co.
Mass., Cambridge
Exlon Co., The, 156 Sixth St.
N. Y., New York City
Electric Reduction Co.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Duquesne
Carnegie Steel Co.
Pa., Montour Junction
Pittsburgh Metallurgical Co.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Tenn., Chattanooga
Southern Ferro-Alloys Co.

Ferro-Silicon-Aluminium

N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Ferro-Titanium

N. Y., New York City
Goldschmidt Thermit Co., 120 Broadway
Klipstein & Co., A., 644 Greenwich St.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Ferro-Tungsten

Colo., Boulder
Tungsten Products Co.
Del., Wilmington
Mineral Products Mfg. Co., Inc.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
Md., Baltimore
Tungsten Products Co. of Maryland
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Electric Reduction Co.
Electro-Metallurgical Co., 42d St. Bldg.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Virginia Electrolytic Co., 99 Cedar St.
Pa., Latrobe
Hudson Reduction Co.
Pa., Philadelphia
Shimer & Co., H. M.
Pa., Pittsburgh
Vanadium Alloy Steel Co.
Pa., Primos
Primos Chemical Co., Inc.

Ferro-Uranium

N. Y., New York City
Electric Reduction Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Pittsburgh
Standard Alloys Co., Forbes and Meyren Aves.
Standard Chemical Co.

Ferro-Vanadium

N. Y., New York City
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., Inc., 120 N. 19th St.
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Basic Products Co.
Standard Alloys Co., Forbes and Meyren Aves.
Standard Chemical Co.
Pa., Primos
Primos Chemical Co.

Ferro-Zirconium

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Manganese Alloys

N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y. Niagara Falls
American Magnesium Corporation

Manganese-Aluminium

N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Manganese-Bronze

Pa., Philadelphia
Ajax Metal Co.

Manganese-Copper

Mass., Boston
Richards & Co., Inc., 200 Causeway St.
N. Y., New York City
Metal & Thermit Corporation
Pa., Philadelphia
Ajax Metal Co.

Manganese-Titanium

N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Monel Metal

N. Y., New York City
International Nickel Co., 43 Exchange Place

Nickel Alloys
N. Y., Lockport
Electric Smelting & Aluminum Co.

Nickel-Copper, 50/50%
N. Y., New York City
Goldschmidt-Thermidt Co., 120 Broadway

Non-ferrous Alloys
Pa., Philadelphia
Ajax Metal Co.

Phosphor-Bronze
Conn., New Haven
United Smelting & Aluminum Co., Inc.
Conn., Waterbury
The American Brass Co.
Ill., Chicago
Globe Metal Co., 1970 Clybourn Ave.
N. J., Riverside
Riverside Metal Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 84 LaFayette St.
Nassau Smelting & Refining Works, Ltd., 605 W. 29th St
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
North American Smelting Co., 9th and Thompson St.
Pa., South Bethlehem
Bethlehem Steel Co.

Phosphor-Copper
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., New York City
Coignet Chemical Products Co., Inc., 17 State St.
Metal & Thermit Corporation, 120 Broadway.
North Atlantic Metal Corporation, 29 Broadway

Phosphor-Tin
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
N. Y., Lookport
Electric Smelting & Aluminum Co.
N. Y., New York City
Metal & Thermit Corporation, 120 Broadway
North Atlantic Metal Corporation, 29 Broadway

Phosphorus Alloys
N. Y., Lockport
Electric Smelting & Aluminum Co.

Silicon Alloys
N. Y., Lockport
Electric Smelting & Aluminum Co.

Silicon-Calcium-Aluminum
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silicon-Copper
N. Y., New York City
Metal and Thermit Corporation, 120 Broadway

Silicon-Chromium
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silicon-Manganese-Aluminum
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Silico-Manganese
Cal., San Francisco
Pacific Electro-Metals Co.
N. Y., New York City
*Leavitt & Co., C. W., 39 Church St.

Silico-Spiegel
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Spiegeleisen
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Steel Alloys
Mass., Fitchburg
Simonds Mfg. Co.
Mich., Detroit
Ford Motor Co.
N. Y., Syracuse
Halcomb Steel Co.
Ohio, Canton
United Alloy Steel Corporation
Pa., Bridgeville
Universal Rolling Mill Co.
Pa., Latrobe
Vanadium Alloys Steel Co.
Pa., Washington
Electric Reduction Co.

Vanadium-Copper
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.

Alpha, Naphtholbenzene
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Alum (Filter)
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ohio, Cleveland
Grasselli Chemical Co.
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelpha
Pennsylvania Salt Mfg. Co., Widener Bldg.

Alum (Papermakers)
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ohio, Sandusky
Jarecki Chemical Co.

Alum (Sizing)

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cleveland
Grasselli Chemical Co.

Alum, Ammonia

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., 54 W. Kinzie St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Fuerst Bros. & Co., 2 Stone St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Utah, Salt Lake City
American Smelting & Refining Co.

Alum, Ammonia, U.S.P. (Crystals)

England, Manchester
Spence & Sons, Ltd., Peter
Del., Wilmington
Du Pont de Nemours & Co., E. I.

Alum, Chromium

Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Commercial Acid Co., 1916 Boatman's Bank Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Bischoff & Co., C., 451 Washington St.
*Campbell, C. W., 95 Cliff St.
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph, 4 Rector St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Katzenbach & Bullock Co., Inc., William and John Sts.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St.
N. Y., Niagara Falls
National Electrolytic Co.
Pa., Philadephia
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co.

Alum, Potassium (*see Potassium Aluminum Sulphate*)

Alumina (*see Aluminium Oxide*)

Aluminium, Metal

Conn., New Haven
United Smelting & Aluminum Co.
Ill., Chicago
Great Western Smelting & Refining Co.
Illinois Smelting & Refining Co.
Ind., East Chicago
U. S. Reduction Co.
Ill., Le Mont
Illinois Pure Aluminum Co.
Mich., Detroit
Michigan Smelting & Refining Works
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
*Leavitt & Co., 30 Church St.
Nassau Smelting & Refining Works, 605 W. 29th St.
Ohio, Cleveland
National Smelting Co., 6800 Grant Ave.
Pa., Philadelphia
Janney, Steinmetz & Co., 1421 Chestnut St.
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
Northern Aluminum Co., Ltd., 2344 Oliver Bldg.

Aluminium, Dust

Cal., Oakland
Butters, Charles

Aluminium, Granulated

N. Y., New York City
Harshaw, Fuller & Goodwin Co.

Aluminium, Ingot

Ill., Aurora
Jobbins, Inc., Wm. F., 923 N. Lake St.

Aluminium, Powdered

N. Y., New York City
Harshaw, Fuller & Goodwin Co.

Aluminium Acetate

England, Manchester
Robinson & Co., H. F., Newton Heath
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Alloys (*see Alloys*)

Aluminium Carbide

N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb, E. R. & Sons, 84 Beekman St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Aluminium Carbide—*cont.*

Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
*Thomas, Arthur H., Co., W. Washington Square

Aluminium Carbonate

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

Aluminium Chloride

Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
Marble & Co., J. Russell
Mich., Midland
Dow Chemical Company
N. Y., Brooklyn
Wiarda & Co., John C,, 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broadway
Kalbfleisch Corporation, 31 Union Sq., W.
Katzenbach & Bullock Co., 100 William St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Rector Chemical Co., 2 Rector St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Waldo, E. M. & F., 11 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Niagara Falls
Niagara Alkali Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Aluminium Chloride Solution, 30°

N. Y., New York City
Cooper & Co., Charles 194 Worth St.

Aluminium Formate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Hydrate (*see Aluminium Hydroxide*)

Aluminium Hydroxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Stresen-Reuter & Hancock, Inc., 122 S. Michigan Ave.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Aluminium Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.

Aluminium Oxide

N. J., Trenton
Utah Potash Co.
Pa., Philadelphia
General Chemical Co., Lafayette Bldg.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Va., Petersburg
Southern Chemical Co.

Aluminium Palmitate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Sloan & Russell, 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Aluminium Palmitate, Fused

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.

Aluminium Phosphate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Resinate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Aluminium Resinate, Prec.

N. Y., New York City
Harshaw, Fuller & Goodwin Co.

Aluminium Stearate

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Klipstein & Co. A,., 644 Greenwich St.
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Aluminium Sulphate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Manchester
Spence & Sons, Ltd., Peter
England, Widnes
Alumina Co., Ltd.
Ill., Chicago
* Daigger & Co., A., 54 W. Kinzie St.

Aluminium Sulphate—*cont.*

Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Mass., Boston
Cochrane Chemical Co.
Merrimac Chemical Co.
New England Gas & Coke Co.
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
Mich., Menominee
*Michigan Electrochemical Co., N. State St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Coal Products Co., 17 Battery Place
Butterworth-Judson Corp., 61 Broadway
Chemical Co. of America, Inc.
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
Squibb & Son, E. R., 82 Beekman St.
*Tennant Sons Co., C., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Jarecki Chemical Co.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square

Aluminium Sulphate, Commercial Tech.

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphate, Pure Cryst, Tech.

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphite

Ill., Aurora
Jobbins, Inc., Wm. F., 923 N. Lake St.

Aluminium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Tungstate

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassan St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Aluminum (*see Aluminium Metal*)

Amber, Synthetic

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Amidoazobenzene

Pa., Philadelphia
Harmer Laboratories Co.

Amidodimethylaniline Base. C. P.-p.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Amidol (*see Diamidiphenol*)

Amidopyrine

N. Y., New York City
*Fougera, E. & Co., 90 Beekman St.

Amidophenol, Di

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Amidophenol Diacetyl, Para

N. Y., New York City
Chemical Co. of America, 176 Front St.

Amidophenol Hydrochloride, Para

N. Y., New York City
Chemical Co. of America., Inc., 176 Front St.
New Jersey Products, Inc., 165 Broadway
Rector Chemical Co., Inc., 2 Rector St.
Wright Chemical Corporation, 38 Park Row

Amidophenol, Ortho

N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.

Amidophenol, Para

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Barrett Co., 17 Battery Place
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 176 Front St.
*Drug & Dyestuff Corp., 120 Broadway
Empire Chemical Co., 149 Broadway
Klipstein & Sons Co., E. C., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Rector Chemical Co., Inc., 2 Rector St.
Wright Chemical Corporation, 38 Park Row
N. Y., North Tonawanda
Synthetic Products Co., Inc.
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.

Amidophenol Sulphate, Mono-Methyl-Para

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Ammonia

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Cal., Los Angeles
Bobrick Chemical Co., 111-117 S. Garey St.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Western Chemical Mfg. Co.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
Armour & Co.
By-Products Coke Corp.
*Daigger & Co., A., 54 W. Kinzie St.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co.
Morris & Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Md., Baltimore
Thomson Chemical Co.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Detroit
Michigan Ammonia Works
Michigan Carbon Works
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
Listers Agricultural Chemical Works
N. Y., Buffalo
Buffalo Union Furnace Co.
Contact Process Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Cyanamid Co., 511 5th Ave.
Barrett Co., 17 Battery Place
Cooper Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Niagara Coke Corp., 6 Church St.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., North Tonawanda
Riverside Chemical Co., 1194-96 Oliver St.
Ohio, Cincinnati
*Drackett & Sons Co., P. W. 5020 Spring Grove Ave.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
Grasselli Chemical Co.

Ammonia—*cont.*

Ohio, Cleveland—cont.
Harshaw, Fuller & Goodwin Co.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Alleghany By-Product Coke Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, Grays Ferry Rd. and 29th St.
Cambria Steel Co., Widener Bldg.
Clawson Co., 240 Chestnut St.
Midvale Steel & Ordnance Co., Widener Bldg.
United Gas Improvement Co.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Product Co.
Va., Richmond
Va.-Carolina Chemical Co.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.

Ammonia Alum, U. S. P. (*see Alum, Ammonia, U. S. P.*)

Ammonia, Anhydrous

Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Ill., Chicago
Armour Glue Works, 137 LaSalle Ave.
Morris & Co., Union Stock Yards
Md., Baltimore
*McCormick & Co., 722 E. Pratt St.
Mass., Boston
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
New England Gas & Coke Co.
Mich., Detroit
Michigan Ammonia Works, Meldrum St.
Mo., St. Louis
National Ammonia Co., 3600 N. Broadway
N. Y., New York City
American Cyanamid Co., 511 5th Ave.
General Chemical Co., 25 Broad St.
Cooper & Co., Chas., 194 Worth St.
*Katzenbach & Bullock Co., 100 William St.
National Ammonia Co., 30 Platt St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340-344 E. 92d St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Carbondale
Carbondale Calcium Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road
National Ammonia Co., Van Kirk and Delaware River

Ammonia, Aqua (*see Ammonium Hydroxide and Ammonia*)

Ammoniates, Fertilizer

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Swift & Co., Union Stock Yards
Wilson & Co., 41st and Ashland Ave.
Va., Richmond
Virginia-Carolina Chemical Co.
Wash., Seattle
American Nitrogen Products Co.

Ammonium Acetate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Benzoate

N. Y., New York City
Lehn & Fink, Inc., 120 William St.

Ammonium Bicarbonate

N. Y., New York City
Barrett Co., Battery Place
N. Y., Syracuse
Semet Solvay Co.

Ammonium Bifluoride

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Ammonium Borate

N. Y., New York City
Pacific Coast Borax Co., 100 William St.

Ammonium Bromide

Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Baker, H. J. & Bro., 81 Fulton St.
Cooper & Co., Chas., 194 Worth St.
Heyden Chemical Works, 135 William St.
Merck & Co., 45 Park Pl.
Southern Oil & Chemical Co., 15 Park Row
*Wood, Inc., J. Early, 21 Platt St.
Pa., Easton
Baker & Adamson Chemical Co.
W. Va., Malden
Dickinson Co., J. Q.

Ammonium Carbonate

Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Md., Baltimore
*Walter Co., Edward J., 803 American Bldg.
Mich., Detroit
Michigan Ammonia Works, Meldrum St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Agricultural Chemical Co.
Edgertyn Aniline Corp., 118 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.
Mallinckrodt Chemical Works
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Powers-Weightman-Rosengarten Co.
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
Squibb & Sons, E. R., 82 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Jordan, Jr., W. H. & F., 128 N. Water St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Pittsburgh
*Scientific Materials Co.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Sq.

Ammonium Carbonate, Pure Tech. Lump

N. Y., New York City
*Cooper & Co., Chas., 194 Worth St.

Ammonium Chloride

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
*Linder & Meyer, 89 State St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Barrett Company, Battery Place
Cooper & Co., Charles, 194 Worth St.
*Fuerst Bros. & Co., 2 Stone St.
*General Chemical Co., 25 Broad St.
Harshaw, Fuller & Goodwin Co., 100 William St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Ammonium Chloride—*cont.*

N. Y., New York City—cont.
Riker, J. L. & D. S., Inc., 19 Cedar St.
*Roessler & Hasslacher Chemical Co. 100 William St.
Squibb & Co., E. R., 82 Beekman St.
White Tar Co., 2 Cliff St.
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Jordan, Jr., W. H. & F., 128 N. Front St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Sq.

Ammonium Chromate

N. Y., New York City
*Campbell, C. W., 11 Cliff St.

Ammonium Citrate

N. Y., New York City
*Pfizer & Co., Chas., 81 Maiden Lane

Ammonium Fluoride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda, John C., & Co., 273 Greene St.
N. Y., New York City
Raritan Chemical Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Ammonium Fluoride, Dry, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Hydrate (*see Ammonium Hydroxide*)

Ammonium Hydroxide

Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.
Colo., Denver
Western Chemical Mfg. Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, London
Berk & Co., Ltd., F. W., Fenchurch St.
Ill., Aurora
Jobbins, Inc., Wm. F., 923 N. Lake St.
Ill., Chicago
Deegan Supply Co., 116–122 W. Illinois St.
Mass., Boston
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
United Indigo & Chemical Co., 176 Federal St.
Mich., Detroit
Michigan Ammonia Works, Meldrum St.
Mo., St. Louis
National Ammonia Co., 3600 N. Broadway
N. Y., Brooklyn
Seldner & Enequist
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Barrett Co., 17 Battery Place
Columbia Chemical Works, 11 Broadway
*Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
*Heymann, W. H., 438 E. 59th St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
National Ammonia Co., 30 Platt St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340–344 E. 92d St.
United Aniline & Chemical Works, Inc., 377 Broadway
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Carbondale
Carbondale Calcium Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Road.
National Ammonia Co., Van Kirk and Delaware River
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ammonium Hydrosulphuret

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Iodide, U.S.P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium, Molybdate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Del., Wilmington
Mineral Products Mfg. Co., Inc.
N. J., Belleville
Rare Metal Products Co., Cortland St.
N. Y., New York City
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 82 Beekman St.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
Pa., Primos
Primos Chemical Co.

Ammonium Muriate (*see Ammonium Chloride*)

Ammonium Nitrate

Ala., Muscle Shoals
U. S. Government Plant
Del., Wilmington
Hercules Powder Co.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
*Aetna Explosives Co., Inc., 120 Broadway
*Alexander & Co., Inc., C. S., 61 Broadway
American Cyanamid Co., 511 Fifth Ave.
Butterworth-Judson Corporation, 61 Broadway
*Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Merck & Co., 45 Park Pl.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
*Tennant Sons & Co., C., 100 William St.
*Peters, White & Co., 55 John St.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Powder Co., Arcade Bldg.
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg., 1177 Marquette Road.
Pa., Emporium
Cameron Powder Mfg. Co.
Wash., Seattle
American Nitrogen Products Co.

Ammonium Nitrate, Granular, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Squibb & Sons, E. R., 82 Beekman St.
Pa., Bradford
American Alkali & Acid Co.

Ammonium Persulphate

N. Y., New York City
Holz, Herman A., 50 Church St.

Ammonium Phosphate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Victor Chemical Works, 1810 Fisher Bldg.
N. Y., Brooklyn
*Wiarda & Co., John C.
N. Y., New York City
*American Cyanamid Co., 511 Fifth Ave.
*Cooper & Co., Charles, 194 Worth St.
*General Chemical Co., 25 Broad St.
*Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Sons, E. R., 82 Beekman St.
England, Manchester
Victors, Ltd., Victoria Bldg.

Ammonium Phosphate, Acid

Ill., Chicago
Victor Chemical Works, 343 S. Dearborn St.

Ammonium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.
Lehn & Fink, Inc., 120 William St.

Ammonium Stearate

N. Y., Long Island City
Horn Co., A. C., Horn Bldg.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Sulphate

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
England, Manchester
Spence & Sons, Ltd., Peter
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
Armour & Co., Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Illinois Steel Co., 208 S. La Salle St.
Ill., Waukegan
Inland Steel Co.
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
Merrimac Chemical Co., 40 Central St.
New England Fuel & Trans. Co., 111 Devonshire St.
New England Gas & Coke Co., 24 West St.
Mich., Detroit
Michigan Carbon Works
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
Lister Agricultural Chemical Works
N. Y., Buffalo
Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Union Furnace Co.
Lackawanna Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Alexander & Co., Inc., C. S., 61 Broadway
American Cyanamid Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., 17 Battery Place
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Industrial Chemical Co., Fifth Ave. Bldg.
Katzenbach & Bullock Co., 100 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
Niagara Coke Corp., 6 Church St.
*Peters, White & Co., 92 William St.
Southern Oil & Chemical Co., 15 Park Row
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Allegheny By-Products Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co., Widener Bldg.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.

Ammonium Sulphate—*cont.*

Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.
Scotland, Glasgow
Pumpherston Oil Co., Ltd., 135 Buchanan St.

Ammonium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Sulphocyanate, Purif. Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Sulphocyanide

(*see Ammonium Sulphocyanate*)

Ammonium Tartrate, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Vanadate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Primos
Primos Chemical Co.

Amyl Acetate

Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
International Smokeless Powder & Chemical Co.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Van Schaack Bros. Chemical Works, 3358 Avondale Ave.
N. J., Carlstadt
Franco-American Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.
Cooper & Co., Charles, 194 Worth St.
*Eimer & Amend, 205–211 Third Ave.
*Huisking, Inc., Chas. L., 5 Platt St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., H. R., 194 Water St.
*Maas & Waldstein Co., 100 William St.
*Magnus, Mabee & Reynard, 257 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Powers-Weightman-Rosengarten Co.
*Sloan & Russell, Inc., 132 Nassau St.
U. S. Industrial Chemical Co., 27 William St.
Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.
*Van Brunt & Co., J. A., 114 John St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Warren
Warren Chemical Products Co.

Amyl A'cohol

(*see Alcohol Amyl*)

Amyl Butyrate

Ill., Chicago
Van Shaack Bros., Chemical Works
N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.
Wis., Wauwatosa
Northwestern Chemical Co.

Amyl Nitrite

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Amyl Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.
Pa., Philadelphia
Thomas Co., Arthur H., West Washington Square

Aniline

Conn., Naugatuck
Naugatuck Chemical Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Heller & Co., B., 3925 Calumet Ave.
Street & Co., R. R., 541 W. Washington St.

Aniline—*cont.*

Ill., Chicago—cont.
*Sethness Co., 718 N. Curtis St.
Western Aniline Products Co.
La., New Orleans
Wallior Chemical Works, 1010 Camp St.
Mass., Boston
Atteaux & Co., F. E., 176 Purchase St.
Bird & Co., J. A. & W., 88 Pearl St.
United Indigo & Chemical Co., 176 Federal St.
United States Color & Chemical Co., 93 Broad St.
Mich., Detroit
Eaton & Son, Theo. H., 26 Woodward Ave.
Mich., Midland
Dow Chemical Co.
N. J., Bound Brook
Calco Chemical Co.
N. J., Elizabeth
Midvale Chemical Works
N. J., Newark
American Ultramarine & Globe Aniline Works, Hamburg Place
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. Y., New York City
*Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Bachmeir & Co., Inc., 438 W. 37th St.
Bayer Co., The, 117 Hudson St.
Berlin Aniline Works, 213 Water St.
*Bischoff & Co., Inc., C., 451 Washington St.
*Bredt & Co., F., 240 Water St.
*Campbell & Co., John, 75 Hudson St.
*Century Colors Corp., 182 Front St.
Chemical Co. of America, 176 Front St.
*Chemical Importing & Mfg. Co., 90 West St.
*Doherr, Grimm & Co., 87 Gold St.
Dye Products & Chemical Co., 200 Fifth Ave.
*Echavarria & Co., R., 8 Bridge St.
Farbwerke-Hoechst Co., 122 Hudson St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Heller & Merz, 505 Hudson St.
*Herman & Herman, Inc., 6 Church St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lieber & Co., Inc., H., 14 Platt St.
L. & R. Organic Products Co., Inc., 27 Thames St.
*Magnus, Mabee & Reynard, Inc., 257 Pearl St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Eddy Chemical Co., 1014 Eliza St.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.
Pa., Philadelphia
Cambria Steel and Ordnance Co., Widener Bldg.
*Fortner Co., L. B., 36–38 Strawberry St.
Harmer Laboratories Co., 1704 Market St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Industrial Chemical Co., Inc., P. O. Box 1288
*Lewis, John D., 63 Charles St.
Tenn., Kingsport
Union Dye & Chemical Corporation
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Sq.
Switzerland, Basle
Sandoz Chemical Works, 60 Fabrikstrasse

Aniline Dyes

(*see Colors and Dyestuffs*)

Aniline Hydrochloride

Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Bound Brook
Calco Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

Aniline Hydrochloride—*cont.*

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Berlin Aniline Works, 213 Water St.
Butterworth-Judson Corp., 61 Broadway
Chemical Co. of America, 28 Platt St.
Edison International Corporation, 165 Broadway
Independent Chemical Co., 72 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Read & Holliday Sons, 160 Franklin St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia
Ferguson Bros., 109 Chestnut St.
Smith, Kline & French Co.
Thomas Co., Arthur H., W. Washington Square

Aniline Oil (*see Aniline*)

Aniline Sulphate

Conn., Naugatuck
Naugatuck Chemical Co.

Animal Derivatives

Mich., Detroit
Digestive Ferments Co.

Antepine, Liquid

N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.

Anthracene

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Ill., Madison
Kettle River Co.

Ind., Indianapolis
Republic Creosoting Co., Merchants Bank Bldg.

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.

N. Y., New York City
Barrett Co., 17 Battery Pl.
Edgertyn Aniline Corp., 118 William St.
Merck & Co., 45 Park Place

Pa., Philadelphia
*Thomas, Arthur H., W. Washington Square

Anthraquinone

Ill., Chicago
Research Laboratory of Chicago, 467 Ontario St.

N. J., Jersey City
Globe Chemical Co., Inc., 168 Broadway

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Anti-Chlorine

Mass., Atlantic
*Bosson & Lane

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.

R. I., Providence
Arnold, Hoffman & Co.
Rumford Chemical Works

Antidolorin

N. J., Carlstadt
Franco-American Chemical Works, 8 Gold St.

Antimonelle

N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row.

Antimony (Metal)

Cal., San Francisco
Selby Smelting & Lead Co., Merchants' Exchange Bldg.

Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Illinois Smelting & Refining Co.
Raymond Lead Co., 940 W. Huron St.

Mass., Boston
Cochrane Chemical Co., 40 Central St.
*Richards & Co., Inc., 200 Causeway St.

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

N. J., Jersey City
Williams & Sons, E. A.

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

N. Y., Buffalo
*Hayman & Co., M., E. Ferry and N. Y. C. R. R.

N. Y., New York City
American Metal Co., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
*Chrystal, Charles B., 11 Cliff St.

Antimony (Metal)—*cont.*

N. Y., New York City—cont.
Cooper & Co., Charles, 194 Worth St.
Dickerson, Van Dusen & Co., 32 Cliff St.
Edgertyn Aniline Corp., 118 William St.
*Hardy, Charles, 50 Church St.
*Hendricks Bros., 49 Cliff St.
*Hill & Sons, Edw., 64 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
*Import Chemical Co., 276 Water St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Leavitt & Co., C. W., 30 Church St.
Magnolia Metal Co., 113 Bank St.
McKesson & Robbins, Inc., 91 Fulton St.
Nassau Smelting & Refining Works, 607 W. 29th St.
*Rockhill & Vietor, 22 Cliff St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schieffelin & Co., 170 William St.
*Seligmann, Arthur, 165 Broadway
Wah Chang Mining & Smelting Co.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Ajax Metal Co.
Foote Mineral Co., Inc.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Hussey & Co., C. G., 2850 Second Ave.

Antimony, Black

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Antimony, Crude

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Weymouth, Ralph W., 111 Broadway

Antimony Lactate

N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row.

Antimony, Needle (*see also Antimony Sulphide*)

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Fuerst Bros. & Co., 2-4 Stone St.
Harshaw, Fuller & Goodwin Co., 100 William St.
*Import Chemical Co., 276 Water St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Weymouth, Ralph W., 111 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Antimony, Needle, Powdered, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Antimony Chloride

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Apex Chemical Co., 63 Park Row
Cooper & Co., Chas., 194 Worth St.
Lehn & Fink, Inc., 120 William St.
Merck & Co., 45 Park Place
Ohio Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers Weightman-Rosengarten Co.

Antimony Oxalate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Antimony Oxide

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Hardy, Chas., Inc., 50 Church St.
*Import Chemcal Co., 276 Water St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Leavitt & Co., C. W., 30 Church St.
Magnolia Metal Co., 113 Bank St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Antimony Oxide, White

N. J., Jersey City
Import Chemical Co., 162 First St.
N. J., New Brunswick
Antimony & Compounds Co. of America, P. O. Box 293

Antimony Potassium Tartrate

England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
N. Y., New York City
Squibb & Sons, E. R., 82 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Antimony Regulus

N. J., New Brunswick
Antimony Compound Co. of America, P. O. Box 293
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Magnolia Metal Co., 113 Bank St.
*Weymouth, Ralph W., 111 Broadway

Antimony Sulfide, Golden

N. J., Jersey City
Import Chemical Co., 162 First St.

Antimony Sulphide (*see also Antimony, Needle*)

Conn., Naugatuck
Naugatuck Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Belleville
Rare Metal Products Co., Cortland St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
*Import Chemical Co., 276 Water St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Magnolia Metal Co., 113 Bank St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Antimony Sulphide, Crimson

N. J., Jersey City
Import Chemical Co., 162 First St.

Antimony Sulphuret (*see Antimony Sulphide*)

Antimony Tribromide

Mich., Midland
Dow Chemical Co.

Antimony Trichloride

Conn., Naugatuck
Naugatuck Chemical Co.

Antipyrene

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Lehn & Fink, Inc., 120 William St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Rector Chemical Co., Inc., 2 Rector St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Antitoxins

D. C., Washington
National Vaccine & Anti-Toxin Institute, 1513 W St., N. W.
Ill., Chicago
Cutter Laboratory of Ill., The, 170 N. Dearborn Ave.
Ind., Indianapolis
Lilly, Eli & Co., 224 E. McCarthy St.
Mich., Detroit
Parke, Davis & Co.
Stearns & Co., Fredericks
N. Y., New York City
Lederle Anti-Toxin Laboratories, 170 William St.
Pasteur Laboratories of America, 366 W. 11th St.
*Schieffelin & Co., 170 William St.
Pa., Philadelphia
Mulford, H. K., Co., 412 S. 13th St.

Aqua Fortis (*see Acid, Nitric*)

Arbutin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Archil Extract (*see Extract, Archil*)

Argentum Proteinicum

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Heyden Chemical Works, 135 William St.

Argillite (*see also Clays*)

N. J., Bound Brook
Atlas Mineral Products Machine Co.
N. Y., Gouverneur
Ontario Talc Co.
N. Y., New York City
International Pulp Co., 41 Park Row
Union Talc Co., 132 Nassau St.
Pa., Easton
Williams & Co., C. K.

Argols

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
R. I., Providence
Arnold, Hoffman & Co.

Argols, Crude

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Argols, Red Powdered

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Argon

N. Y., New York City
Air Reduction Sales Co., 120 Broadway.
N. Y., Schenectady
General Electric Co.

Arsenic

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
Victors, Ltd., Victoria Bldg.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. J., Perth Amboy
Raritan Copper Works
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
*Beer, Sondheimer & Co., 61 Broadway
Chipman Chemical Engineering Co., 95 Liberty St.
*Cooper & Cooper, 309 Broadway
*Echavarria & Co., R., 8 Bridge St.
*Leggett & Bro., 301 Pearl St.
*Fuerst Bros. & Co., 2 Stone St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
*Halle-Perris Trading Corporation, 24 State St.
*Hemingway, Inc., Frank

Arsenic, Red (*see Arsenic Sulphide*)

Arsenic Sulphide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Philipp Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Weymouth, Ralph W., 111 Broadway

Arsenic Trioxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Davison Chemical Co., South and German Sts.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., New York City
American Smelting, Refining & Mining Co., 120 Broadway
Chipman Chemical Engineering Co., 95 Liberty St.
Edgertyn Aniline Corp., 118 William St.
*Eimer & Amend, 205–211 3d Ave.
Hill's Sons Co., Edw., 64 Wall St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
*Nitrate Agencies Co., 102 Pearl St.
*Philipp Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
*Tennant Sons & Co., 100 William St.
U. S. Metals Refining Co., 42 Broadway
*Van Brunt & Co., Inc., J. A., 114 John St.
*Weymouth, Ralph W., 111 Broadway
White Tar Co., 6 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Ont., St. Catharines
Coniagas Reduction Co., Ltd.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Arsenic Troxide—*cont.*

Pa., Philadelphia—cont.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.
*Thomas, Arthur H., Co., W. Washington Square
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Arsenic, White (*see Arsenic Trioxide*)

Arsenic, Yellow, Technical (*see Arsenic Sulphide*)

Arsenious Chloride

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Arsenious Oxide (*see Arsenic Trioxide*)

Arsenolite

N. Y., New York City
*Weymouth, Ralph W., 15-17 E. 40th St.

Arsphenamine

N. Y., New York City
Metz & Co., H. A., 122 Hudson St.
Takamine Laboratory, Inc., 120 Broadway
Pa., Philadelphia
Dermatological Research Laboratories, 1720-22 Lombard St.

Asbestine

N. Y., New York City
International Pulp Co., 41 Park Row

Asbestos

Ill., Chicago
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.
*Central Asbestos & Magnesia Co., 214-216 W. Grand Ave.
Columbia Mineral Wool Co., 58 W. Washington St.
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Keasbey Co., Robert A., West and Bank Sts.
New Jersey Asbestos Co., 1 Water St.
Ohio, Cincinnati
Carey Co., Phillip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Franklin
Franklin Mfg. Co.
Pa., Philadelphia
*Lavino & Co., A. J., Bullitt Bldg.
Pa., Reynoldsville
Asbestos Textile Co.
Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Ash (*see Sodium Carbonate*)

Ash, Bone

Colo., Denver
Denver Fire Clay Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Agri. Chemical Co., 2 Rector St.

Ash, Soda (*see Sodium Carbonate*)

Ash, Volcanic

N. J., Lincoln
Atlas Mineral Products Co.

Asphalt (*see also Paving, Roofing*)

Cal., Los Angeles
Union Oil Co. of Cal., 215 W. 7th St.
Mexican Petroleum Co., Security Bldg.
Union Oil Co., 215 W. 7th St.
Mass., Boston
Warren Bros. Co., 59 Temple Place
Mo., St. Louis
Certain-teed Products Corporation
N. Y., New York City
*Asphalt Construction Co., 208 Broadway
Barrett Co., 17 Battery Place
Indian Refining Co., 17 Battery Place
Texas Co., 17 Battery Place
Pa., Erie
*Watson Co., H. F.
Pa., Philadelphia
Atlantic Refining Co.
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.
Texas, Houston
Freeport & Mexican Fuel Co. Corporation

Asphalt Putty

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Asphaltum

Mo., St. Louis
American Asphalt Association
N. J., Newark
Listers Agricultural Chemical Works
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
*Scheel, Wm. H., 159 Maiden Lane
Pa., Pittsburgh
Gulf Refining Co.

Aspirin (*see Acid Acetyl Salicylic, U. S. P.*)

Atropine Sulphate

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Aubepine, Liquid

N. Y., New York City
Bush & Co., W. J., 100 William St.

Auramine

N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
L. & B. Organic Products Co., Inc., 27 Thames St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Auramine O

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
N. Y., Schenectady
Organic Products Corporation

Aurantine (*see Extracts, Osage Orange*)

Avenin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Azo Benzene, Amido

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Azo Coccine 2R

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Azorubine

N. Y., New York City
Klipstein & Sons Co., E. C., 644 Greenwich St.

Azotine

Ga., Savannah
*Crum & Co., W. R.
Ill., Chicago
*Sardy, J. R., 140 W. Van Buren St.
Ind., Marion
Western Drop Forge Works
Md., Baltimore
*White & Co., Thos. H., Reed Bldg.
N. Y., New York City
*Heller-Hirsh & Co., 62 William St.

Azo Toluene, Amido

Ind., Hammond
Western Aniline Products Co., Morton Court
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Azo Toluene, Ortho

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Azo Xybenzene

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Azure I

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Azure II

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Azure II Eosine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Babbitt Metal

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.

Babbitt Metal—*cont.*

Ill., Chicago—cont.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Raymond Lead Co., 940 W. Huron St.
Ryerson & Son, Jos. T., 16th and Rockwell Sts.
Ky., Louisville
Belknap Hardware & Mfg. Co.
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
Mich., Detroit
Michigan Smelting & Refining Co., 1703 Jos Campau
N. Y., Brooklyn
Atlantic Smelting & Refining Co., 36-42 Delevan St.
Standard Rollings Mills Co., Inc.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., New York City
American Smelting, Refining & Mining Co., 120 Broadway
Eagle Smelting & Refining Works
Magnolia Metal Co., 115 Bank St.
Magnus Co., Inc., 111 Broadway
Nassau Smelting & Refining Works, 607 W. 29th St.
National Lead Co., 111 Broadway
United Lead Co., 111 Broadway
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
American Manganese Bronze Co., Holmesburg
North American Smelting Co., 9th and Thompson Sts.
U. S. Smelting Works, 1615 Spring Garden St.
Pa., Pittsburgh
Electric-Vanadium Reduction Co., Vanadium Bldg.
Keystone Bronze Co.
Westinghouse Electric Mfg. Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Bacterial Products

Ind., Indianapolis
Eli Lilly & Co.
Mich., Detroit
Digestive Ferments Co.
Parke, Davis & Co.
Pa., Philadelphia
Mulford Co., H. K.

Bakelite

N. Y., New York City
General Bakelite Co., 2 Rector St.

Balsam, Canada

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Balsams

Mich., Charlotte
Charlotte Drug Co.

Barbital

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Barium

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Barium Acetate

Mo. St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Eimer & Amend, 3rd Ave. and 18th St.
*Halle-Perris Trading Corporation, 24 State St.
*Klipstein & Co., A., 644 Greenwich St.
Squibb, E. R. & Sons., 80 Beekman St.

Barium Binoxide (*See Barium Peroxide*)

Barium Bromate

Mich., Midland
Dow Chemical Co.

Barium Bromide

Mich., Midland
Dow Chemical Co.

Barium Carbonate

Colo., Denver
Chemical Products Co., 612-616 Majestic Bldg.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 54 W. Kinzie St.
*Laboratory Materials Co., 7404 Calumet Ave.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
Toch Bros., 320 Fifth Ave.

Barium Carbonate—*cont.*

N. Y., New York City—cont.
Warner Chemical Co., 52 Vanderbilt Ave.
*Williams & Son, Inc., John T.
Ohio, Cincinnati
Elkhorn Mining & Mfg. Co., 58 Main St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Tenn., Sweetwater
Durex Chemical Works
W. Va., Charleston
Rollin Chemical Co.

Barium Carbonate, Precipitated

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Caustic (*see Barium Hydroxide*)

Barium Chlorate

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop, H. R., & Co., Inc., 194 Water St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Chloride

Cal., San Francisco
Barbour Chemical Works, 354 Pine St.
Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 52-56 W. Kinzie St.
Midland Chemical Co., 80 E. Jackson Blvd.
*Stresen-Reuter & Hancock, Inc.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
*Wiarda, John C., & Co., 273 Greene St.
N. Y., New York City
*Bush, Beach & Gent, Inc., 80 Maiden Lane
*Chemical Importing & Mfg. Co., 90 West St.
*Gabriel & Schall, 205 Pearl St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
Toch Bros., 320 Fifth Ave.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.
Foote Mineral Co., Inc., 111 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Tenn., Sweetwater
Durex Chemical Works
W. Va., Charleston
Rollin Chemical Co., Inc.
England, Manchester
*Hall, George D. A., 33 Mosley St.

Barium Dioxide (*see Barium Peroxide*)

Barium Fluoride

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.

Barium Hydrate (*see Barium Hydroxide*)

Barium Hydroxide

Ill., Chicago
Chicago Copper & Chemical Co., 111 Jackson Place, W.
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
W. Va., Charleston
Rollin Chemical Co., Inc.
England, Manchester
*Hall, George D. A., 33 Mosley St.

Barium Nitrate

Colo., Denver
Chemical Products Co., The, 612 Majestic Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Manchester
*Hall, George D. A., 33 Mosley St.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
*Gabriel & Schall, 205 Pearl St.
*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
Toch Bros., 320 Fifth Ave.
*Williamson & Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Thomas Co., Arthur H., W. Washington Square
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Oxide

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Peroxide

Cal., San Francisco
Barbour Chemical Works, 707 West Coast Life Bldg.
Colo., Denver
Chemical Products Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., 21 Burling Slip
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., Mineral Point
Point Milling & Mfg. Co.
Mo., St. Louis
Finch Mineral Milling Co., J. C., 101 Barton St.
Nulsen, Klein & Krausse Mfg. Co., Foot Sidney St.
N. J., Trenton
Utah Potash Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 21 Burling Slip
Oakland Chemical Co., 10 Astor Place
Toch Bros., 320 Fifth Ave.
*Waldo, E. M. & F., 11 Broadway
Ohio, Cincinnati
Elkhorn Mining & Mfg. Co., 58 Main St.
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphate, Dry

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Barium Sulphate, Powder

N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.

Barium Sulphide

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Toch Bros., 320 Fifth Ave.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Roessler & Hasslacher Chemical Co., 100 William St.

Barium Sulphocyanide (*see Barium Sulphocyanate*)

Barytes

Ala., Leeds
Cahaba Mineral Co.
Alaska, Sulzer
Sulzer, C. A.
Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Colo., Canon City
Taylor, A. L.
Del., Newport
Krebs Pigment & Chemical Co.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Ga., Cartersville
Big Tom Barytes Co.
Georgia Peruvian Ocher Co.
New Riverside Ocher Co.
Paga Mining Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., East St. Louis
Illinois Mineral Milling Co.
Md., Baltimore
Cherokee Chemical Co., 109 Hollingsworth St.
Mo., Blackwell
Cole & Co., L. E.
McCready & Cole
Mo., Cadet
Long & Son, A.
White & Bro.
Mo., De Soto
Stocking & Sons, C. A.
Mo., Fletcher
Johnson Bros.
Mo., Halifax
Carter & Co., H. C.
Mo., Henley
Reavis & Sons, W. T.
Mo., Mineral Point
Point Milling & Mfg. Co.
Mo., Potosi
Casey & McGregor
South East Wisconsin Lead Co.
Mo., St. Louis
Finck Mineral & Mining Co., J. C., 101 Barton St.
Nulsen, Klein & Krausse Mfg. Co., Levee and Sidney Sts.
Potosi Lead, Barytes & Mercantile Co., 721 Locust St.
Washington Land & Mining Co., 307 Washington St.
Mo., Tiff
U. S. Barytes Co.
N. C., Asheville
Betts & Co., Anson G.
N. C., Bessemer City
Lawton, Charles L.
N. C., Stackhouse
Carolina Barytes Co.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
Durex Chemical Co., 320 Fifth Ave.
*Fuerst Bros. & Co., 2 Stone St.
Thompson-Weinman & Co., 100 William St.
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Pittsburgh-Potosi Lead Co., 5527 Ellsworth Ave.

Bauxite

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Leavitt & Co., C. W., 30 Church St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Republic Mining & Mfg. Co., Harrison Bldg.
Pa., Pittsburgh
American Bauxite Co., Oliver Bldg.
Tenn., Chattanooga
Cherokee Mining Co.

Bensapol

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Benzal Chloride

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Benzaldehyde

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Bush & Co., Inc., W. J., 100 William St.
Chemical Co. of America, 176 Front St.
Chiris, Antoine, Co., 20 Platt St.
Florasynth Laboratories, Inc., 231 Pearl St.
*Heine & Co., 7 Platt St.
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Rector Chemical Co., Inc., 2 Rector St.
*Rockhill & Vietor, 22 Cliff St.
Southern Oil & Chemical Co., 15 Park Row
N. Y., Syracuse
Semet Solvay Co.
Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Benzaldehyde, Free from Chlorine

N. J., Bayonne
Standard Chemical Co., W. 5th St.

Benzaldehyde, Tech.

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. J., Ridgefield Park
British-American Chemical Co., Inc.

Benzene

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Cal., San Francisco
Pacific Refining & Roofing Co., 16th and Texas Ave.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont Nemours & Co., E. I.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
By-Products Coke Corp.
*Daigger & Co., A., 54 W. Kinzie St.
*Furman, Jas. H., 326 W. Madison St.
Gas Oil Co. of Indiana, People's Gas Bldg.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cabot, Inc., Samuel, 141 Milk St.
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
Lackawanna Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Berlin Aniline Works, 213 Water St.
Cooper & Co., Chas., 194 Worth St.
Edison International Corporation, 165 Broadway

Benzene—*cont.*

N. Y., New York City—cont.
*Herman & Herman, Inc., 6 Church St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Jordan, Wm. E., 11 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 194 Water St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Niagara Coke Corp., 6 Church St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Williamson & Co., 120 Broadway
Zobel & Co., Inc., Ernst, 38 Water St.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Solvay
Solvay Process Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
Harshaw, Fuller & Goodwin Co., Electric Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Lorraine
National Tube Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
LaBelle Iron Works
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., Johnstown
Cambria Steel Co.
Pa., McKeesport
Allegheny By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Harmer Laboratories Co., 1704 Market St.
Midvale Steel & Ordnance Co., Widener Bldg.
Powers-Weightman-Rosengarten Co.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Milwaukee Gas Light Co.
Northwestern Iron Co., First National Bank Bldg.

Benzene, Amido Azo, Hydrochloride

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Benzene, Dinitro

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzene, Nitro

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzidene

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Williamson & Co., 120 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Pa., Reading
Althouse Chemical Co.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Benzidine, Base and Sulphate

Del., Wilmington
Du Pont Chemical Works
Ill., Quincy
Monroe Color & Chemical Co., N. Front St.
N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. J., Ridgefield Park
British-American Chemical Co., Inc.,
N. Y., New York City
Chemical Co. of America, 176 Front St.
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway

Benzine

Cal., Los Angeles
Southern Refining Co., 129 W. 2d St.
Union Oil Co., of California, 215 W. 7th St.
Md., Baltimore
Island Petroleum Co., Keyser Bldg.
N. Y., New York City
Southern Oil & Chemical Co., 15 Park Row
Standard Oil Co., 26 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Ave.
Pa., Bradford
Emery Mfg. Co.
Pa., Oil City
Crystal Oil Works
Germania Refining Co.
Pa., Petrolia
Petrolia Refining Co.
Pa., Philadelphia
Atlantic Refining Co.
Crew-Levick Co., Land Title Bldg.
Sun Co., Morris Bldg.
Union Petroleum Co., 135 S. 2d St.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.
Pa., Warren
Warren Refining Co.

Benzo Aminoazo

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Benzo Azurine

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzoin

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Benzol (*see Benzene*)

Benzo Naphthol

N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall

Benzo Purpurine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Benzo Purpurine 4-B

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Klipstein & Sons Co., E. C., 644 Greenwich St.

Benzoyl Chloride

N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.

Benzyl Acetate

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
Florasynth Laboratories, Inc.,231 Pearl St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Benzyl Benzoate

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Benzyl Chloride

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Chemical Co. of America, 176 Front St.
*Chromos Chemical Co., Inc., Aeolian Hall
*Heminway, Inc., Frank, 115 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Middlesex Aniline Co., Inc., 149 Broadway
Rector Chemical Co., Inc., 2 Rector St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Benzyle

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Beryllium

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Pa., Philadelphia
Foote Mineral Co., 113 N. 19th St.

Beryllium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Beryllium Silicate

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Beta Naphthol (*see Napthol, Beta*)

Beta Napthylamine Hydrochloride

Pa., Philadelphia
Harmer Laboratories Co.

Binitrophenol (*see Dinitrophenol*)

Binitrotoluene (*see Dinitrotoluene*)

Biological Products

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Md., Baltimore
Sharp & Dohme
Mich., Detroit
Parke, Davis & Co.
N. Y., Pearl River
Lederle Antitoxin Laboratories
Pa., Philadelphia
Dean, J. Atlee, 5420 Baltimore Ave.
Mulford Co., H. K., 412 S. 13th St.

Biologic Reagents

Dean J. Atlee, 5420 Baltimore Ave.

Bismark Brown

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Holland
Holland Aniline Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
*Dicks, David Co., Inc., 302 Broadway
Dye Products & Chemical Co., Inc., 200 5th Ave.
Marden, Orth & Hastings Corp'n, 61 Broadway
R. I., Providence
Industrial Chemical Co., Inc., P. O. box 1288
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Bismuth (Metal)

Ill., Chicago
Illinois Smelting & Refining Co.
Mass., Boston
*Richards & Co., Inc., 200 Causeway St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining & Mining Co., 120 Broadway
Cooper & Co., Chas., 194 Worth St.
*General Chemical Co., 25 Broad St.
*Hoffman-LaRoche Chemical Works, 440 Washington St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
*Merck & Co., 54 Park Place
*New York Quinine & Chemical Works, 114 William St.
United States Metal Refining Co., 165 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Smith, Kline & French Co., 431 Arch St.
*Trotter & Co., Nathan, 36 N. Front St.

Bismuth Carbonate

N. Y., New York City
*Weymouth, Ralph W., 111 Broadway

Bismuth Chloride

N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Merck & Co., 45 Park Place
*Philipp Bros., Inc., 29 Broadway
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Thomas, Arthur H., Co., W. Washington Square

Bismuth Subcarbonate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Bismuth Subgallate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Bismuth Subnitrate

Colo., Pueblo
Norcross Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Lehn & Fink, Inc., 120 William St.
Merck & Co., 45 Park Pl.
New York Quinine & Chemical Works, Ltd.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.

Bitumen

Ind., Indianapolis
Republic Creosoting Co., Merchants Bank Bldg.
N. Y., New York City
Barrett Co., 17 Battery Place
Standard Oil Co. of New York
Texas, Houston
Texas Co.

Black, Anticorrosive

N. Y., New York City
Martin, L., Co.

Black, Bone

Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
N. J., Newark
Lister Agricultural Chemical Works
N. Y., New York City
American Agri. Chemical Co., 2 Rector St.
*Binney & Smith, 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.

Black, Carbon

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Cabot, Godfrey L., 204 Washington St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.
Martin Co., L., 81 Fulton St.
*Smith & Co., J. Lee, 23 Jacob St.
*Wilckes-Martin-Wilckes Co., 135 William St.
Pa., Williamsport
Columbia Carbon Co.

Black, Fast Chrome Blue

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Black, Direct

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Black, Drop

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Frankfort

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Fur

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.

Black, Gas

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.

Black, Lamp (*see Lamp Black*)

Black, Paper

N. Y., New York City
European Color & Chemical Co., 154 Nassau St.
Martin Co., L., 81 Fulton St.

Black, Paris

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Rubber

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Soot

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Steam

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Black, Sulphur (*see Sulphur Black*)

Black, Technical

N. Y., New York City
*Osborn Co., C. J., 132 Nassau St.

Blacks

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Industrial Chemical Co., Fifth Ave. Bldg.

Blanc Fixe (*see Barium Sulphate*)

Bleach (*see also Calcium Hypochlorite and Chloride of Lime*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Me., Bangor
Eastern Mfg. Co.
Me., Portland
Brown Co.
Mich., Menominee
Michigan Electrochemical Co., N. State St.
Mich., Midland
Dow Chemical Co.
Midland Chemical Co.
N. Y., Albany
Albany Chemical Co.
Wander & Son Chemical Co., S., 135 Church St.
N. Y., Brooklyn
Price, W. H., 55 7th Ave.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Electro Bleaching Gas Co., 18 E. 41st St.
General Chemical Co., 25 Broad St.
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
*Hill's Sons Co., Edward, 64 Wall St.
Hooker Electrochemical Co., 40 Wall St.
Industrial Chemical Co., 5th Ave. Bldg.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
*Nitrate Agencies Co., 102 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Southern Oil & Chemical Co., 15 Park Row
Warner Chemical Co., 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Niagara Alkali Co.
Castner Electrolytic Alkali Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Clark & Co., Fredk. G.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
Pennsylvania Salt Mfg. Co., Widener Bldg.
R. I., Providence
Arnold, Hoffman & Co., Inc.
*Lewis, John D.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Sq.
Utah, Salt Lake City
Utah Soap Co.
Va., Saltville
Mathieson Alkali Works, Inc., The

Bleach Assistant

Mass., Atlantic
Bosson & Lane

Blockplate

Pa., Philadelphia
Taylor Co., Inc., N. & G., 300 Chestnut St.

Blue, Alizarine G.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Blue, Alkali

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Alpha Napthol-B

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Blue, Alpha Napthol-R

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Blue, Aniline

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Benzo, B.B.

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Blue, Bleachers

Mass., Atlantic
Bosson & Lane
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Blue Benzo Sky

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Blue, Bronze

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Middlesex Aniline Co., Inc., 149 Broadway.

Blue, Chinese

N. Y., New York City
Kohnstamm & Co., 87 Park Place
*Klipstein & Co., A.. 644 Greenwich St.
Middlesex Aniline Co., Inc., 149 Broadway

Blue, Chrome

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Blues, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Blue, Chrome Navy, East

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Blue, C. P.

Ill., Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Blue, Cobalt

England, Essex, Loughton
Madderton & Co., Ltd.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.

Blue, Direct

N. J., Bound Brook
Peerless Color Co., Inc.
N. Y., New York City
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
L. & R. Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.
R. I., Providence
Agawam Chemical Works, 10 Waybosset St.
Industrial Chemical Co., Inc., 283 Pitman St.

Blue, Direct, 2 B

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Blue, Direct Navy

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Blue, Ferro Cyanide

N. Y., New York City
Middlesex Aniline Co., Inc., 149 Broadway

Blue, Induline, W.S.

R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Blue, Insoluble (*see Blue, Prussian*)

Blue, Methylene

Ill., Chicago
*Daigger & Co., 54 W. Kinsie St.
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
L. & R. Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Corp'n, Inc., 61 Broadway
Reliance Aniline & Chemical Co., 299 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Methylene, Bacilli and Medicinal

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Methylene, B. B. B. (Extra)

Ill., Chicago
Research Laboratory of Chicago., 467 E. Ontario St.

Blue, Methylene, Loeffler

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Methylene Medicinal

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Blue, Methylene, Rectified for Wright Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Milori

N. Y., New York City
Kohnstamm & Co., 87 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
N. Y., Glen Falls
Imperial Color Works, Inc.

Blue, Oil Soluble

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Blue, Patent Swiss

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.

Blue, Powdered

N. J., Jersey City
Import Chemical Co., 162 First St.

Blue, Prussian

Ill., Chicago
*Daigger & Co., A., 54 W. Kinsie St.
N. J., Newark
Jaenecke-Ault Co.
N. Y., Glen Falls
Imperial Color Works, Inc.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Heller & Merz Co., The, 505 Hudson St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Middlesex Aniline Co., Inc., 149 Broadway
*Osborn Co., C. J., 132 Nassau St.
Ohio, Marietta
Northwestern Chemical Co.
Ohio, Sandusky
Hord Color Products Co.

Blue, Prussian, Insoluble

N. Y., Glens Falls
Imperial Color Works, Inc., Warren St.

Blue, Prussian, Soluble

N. Y., Glens Falls
Imperial Color Works, Inc., Warren St.

Blue-R, Midland

Mich., Midland
Dow Chemical Co.,

Blue, Soluble

Ill., Chicago
*Daigger & Co., A., 54 W. Kinsie St.
N. Y., Glens Falls
Imperial Color Works
N. Y., New York City
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Heller & Merz Co., The, 505 Hudson St.
*Hirsh & Son, L., 368 Greenwich St.
*Ketchum & Co., 65 Fulton St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Blue, Soluble—*cont.*

N. Y., New York City—cont.
Marden, Orth & Hastings Corp'n, 61 Broadway
Reynolds & Devoe Co., 103 Fulton St.
*Tieman & Co., M. F., 100 William St.
*Waldo, E. M. & F., 11 Broadway

Bluestone (*see Copper Sulphate*)

Blue, Toluidine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Blue, Ultramarine

Cal., San Francisco
Wheeler, Reynolds & Stauffer, 624 California Ave.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Cooper & Cooper, 309 Broadway
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Heller & Merz Co., 503 Hudson St.
Ultramarine Co., 38 Park Row
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
W. Va., Huntington
Standard Ultramarine Co.

Blue, Unna, Polychrome Methylene

Pa., Philadelphia
Harmer Laboratories Co.

Blue Vitriol (*see Copper Sulphate*)

Blue, Williamson's

N. Y., New York City
Middlesex Aniline Co., Inc., 149 Broadway.

Bluing, Indigo (*see Indigo*)

Boiler Compound

N. Y., New York City
Chipman Chemical Engineering Co., 95 Liberty St.

Boiler Compounds

Mich., Saginaw
U. S. Graphite Co.
N. Y., New York City
Sonneborn Sons, Inc., L.
Warner Chemical Co., 2 Rector St.
Pa., Fernwood
Modoc Co., Inc.

Boldine Hydrobromide

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Bone Ash (*see Ash, Bone*)

Bone Black (*see Black, Bone*)

Bone, Ground

Ill., Chicago
Armour & Co.
Morris & Co.
Swift & Co.
Wilson & Co.
N. Y., New York City
Lister Agricultural Chemical Co., 2 Rector St.

Bone, Steamed

Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.

Boracic Acid (*see Acid, Boric*)

Borax (*see Sodium Tetraborate*)

Bordeaux (*see Lead Arsenate*)

Borneol

Pa., Grassland
Essential Oil Specialties Co., Inc.

Bortz

N. Y., New York City
*Diamond Drill Carbon Co., 53-63 Park Row.

Brombenzene, Mono

Mich., Midland
Dow Chemical Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
W. Va., Malden
Dickinson & Co., J. O.

Brom'ne

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Merck & Co., 45 Park Place
Squibb & Sons, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Pomeroy
Graclif Chemical Co.

Bromine—*cont.*

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
W. Va., Hartford
American Calcium Chloride Works
W. Va., Malden
Dickinson Co., J. Q.

Bromium Chloride

W. Va., Hartford
Mason Coal & Chemical Co.

Bromoform, U. S. P.

Mich., Midland
Dow Chemical Co.

Bromo Styrol

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Brown, Anthracene

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Brown, Bismarck

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Browns, Basic

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.
L. & R. Organic Products Co., Inc., 27 Thames St.

Browns, Bismarck

Pa., Philadelphia
Harmer Laboratories Co.
R. I., Providence
Industrial Chemical Co., Inc., 283 Pitman St.

Brown, Bismarck Base

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Brown, Bismarck R.

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Brown, Chrome

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Brown, Diazo Seal

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Browns, Direct

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Browns, Direct (*Cotton*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Bound Brook
Peerless Color Co., Inc.
N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Browns, Direct, G

R. I., Providence
Industrial Chemical Co., Inc., 283 Pitman St.

Brown, Direct Fast Red

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Brown, Oil Soluble

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Brown, Spirit Soluble

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Brush Laquers and Thinners

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Cadmium (Metal)

Del., Newport
Krebs Pigment & Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 W. Austin Ave.
Mass., Boston
*Richards & Co., Inc., 200 Causeway St.
Mich., Detroit
Michigan Smelting & Refining Co.
N. J., Trenton
Engle, Robert H.

Cadmium (Metal)—*cont.*

N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Merck & Co., 45 Park Place
U. S. Metals Refining Co., 42 Broadway
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cadmium Bromate

Mich., Midland
Dow Chemical Co.

Cadmium Bromide

Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Cadmium Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Cadmium Nitrate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Cadmium Sulphate

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Cadmium Sulphide

Ill., Chicago
Midland Chemical Co., 80 E. Jackson Blvd.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Caesium Alum

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caesium Chloride

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caesium Nitrate

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caesium Oxide

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caesium Silicate

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caffeine

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 2d St. and LaFayette Ave.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Takamine Laboratory, 120 Broadway

Cala Fene (Fastens Pigment Colors to Leather)

N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row.

Calcium Acetate

Cal., San Francisco
Noble Electric Steel Co., 995 Market St.
Fla., Jacksonville
Florida Wood Products Co.
Ky., Kragon
Kentucky Wood Products Co., Inc.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer, Diggins Co.
Mich., Detroit
Berry Bros., Ltd.
Charcoal Iron Co. of America
Mich., East Jordan
East Jordan Chemical Co.
Mich., Wells
Delta Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Buffalo
Wood Products Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
Gray, W. S. & Co., South Maiden Lane
Industrial Chemical Co., 200 Fifth Ave.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Olean
Beerston Acetate Co.
Buckhannon Chemical Co.
Heinemann Chemical Co.
Lackawanna Chemical Co.
Newton Chemical Co.
Straight Creek Chemical Co.
N. Y., Vandalia
Vandalia Chemical Co.
Ohio, Cleveland
Cleveland Cast Iron Co.
Cleveland-Cliffs Iron Co.
*Harshaw, Fuller & Goodwin Co.
Ore., Portland
Oregon Wood Distilling Co.
Pa., Bradford
Coryville Chemical Co.
Gaffney Wood Products Co.
Lewis Run Mfg. Co.
Maryland Wood Products Co.
Marvindale Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co., Inc.
Pa., Pittston
Wyoming Chemical Co.
Pa., Williamsport
McKean Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Tenn., Memphis
Forest Products Chemical Co.

Calcium Arsenate

N. Y., New York City
*Hemingway, Inc., Frank

Calcium Bromide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Calcium Carbide

Mo., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway
*Canada Carbide Sales Co., Inc., 30 Church St.
Carbondale Calcium Co., 50 Church St.
Edgertyn Aniline Corp., 118 William St.
*Fairbanks Morse & Co., 30 Church St.
Nitrate Agencies Co., 102 Pearl St.
Union Carbide Co., 42d St. Bldg.

Calcium Carbonate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
*Echavarria & Co., R., 8 Bridge St.
*Halle-Perris Trading Corporation, 24 State St.

Calcium Carbonate, Native

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Calcium Chlorate

N. Y., Brooklyn
Wiarda & Co., John C., 100 William St.

Calcium Chloride

Cal., San Francisco
Great Western Electrochemical Co.
England, Darlington
Parkin, Ness & Co., Quebec St.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
England, West Bromwich
Lewington Whitehouse. Olympic Works, Carters Green
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 W. Austin St.
Md., Baltimore
Thomsen Chemical Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Mich., Detroit
Parke, Davis & Co.
Mich., Menominee
Michigan Electrochemical Co., N. State St.
Mich., Midland
Dow Chemical Co.
N. Y., Albany
Mendelson Corporation
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., The, 17 Battery Place
Cooper & Co., Charles, 194 Worth St.
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
Grasselli Chemical Co., 80 Maiden Lane
McKesson & Robbins, Inc., 91 Fulton St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 342 E. 92d St.
Southern Oil & Chemical Co., 15 Park Row
West Disinfecting Co., Inc., 411 5th Ave.
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
*Zobel Co., Inc., Ernst, 38 Water St.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Grasselli Chemical Co.
Ohio, Pomeroy
Graclif Chemical Co.
Pomeroy Salt Co.
Pa., Carbondale
Carbondale Calcium Co.
R. I., Providence
Arnold, Hoffman & Co.
*Lewis, John D., Turks Head Bldg.
Mathieson Alkali Co.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythwood Sq.
Wash., Tacoma
Standard Chemical Co.
W. Va., Hartford
Mason Coal & Chemical Co.

Calcium Fluoride

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Calcium Glycerophosphate

Mo., St. Louis
Monsanto Chemical Works
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Calcium Hypochlorite (*see also Bleach and Chloride of Lime*)

Cal., Los Angeles
Pacific Chemical Co., 1421 N. Main St.
Cal., San Francisco
Rogers Chemical Co., R. R., 527–535 Commercial St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit
Zenner Products Co., 133-135 W. Larned St.
R. I., Providence
Arnold, Hoffman & Co., Inc.

Calcium Hypophosphite

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Calcium Linoleates

Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Calcium Magnesium Chloride

Mich., Midland
Dow Chemical Co.
Ohio, Pomeroy
Graclif Chemical Co.
W. Va., Malden
Dickinson & Co., J. Q.

Calcium Nitrate

N. Y., New York City
*Tennant, C., Sons & Co., 100 William St.
Pa., Pittsburgh
Macbeth-Evans Glass Co.

Calcium Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Calcium Oxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., J. H., 157 W. Austin St.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Minn., Duluth
American Carbolite Co., 301 N. 55th Ave.
N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Solvay
Solvay Process Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co.

Calcium Palmitate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Calcium Phosphate

Ill., Chicago
Victor Chemical Co., 343 S. Dearborn St.
England, Manchester
Victors, Ltd., Victoria Bldg.
Mo., St. Louis
Provident Chemical Works, 8011 Idaho Ave.
N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Calcium Phosphate, Pri.

N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Warner Chemical Co., The, 52 Vanderbilt Ave.

Calcium Phosphate, Sec.

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Calcium Phosphate, Tert.

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Calcium Phosphide

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Calcium Resinate

N. J., Harrison
National Oil Products Co., Essex and First St.

Calcium Resinate, Precipitated

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Stearate

N. Y., Long Island City
Horn Co., A. C., Horn Bldg.
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
N. J., Harrison
National Oil Products Co., Essex and First Sts.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Sulphate

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.
Ill., Hoopeston
Iliff-Bruff Chemical Co.
Iowa, Fort Dodge
Fort Dodge Gypsum Co.
N. Y., Buffalo
Niagara Gypsum Co., 597 Michigan Ave.
Pratt & Lambert Co.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
General Chemical Co., 25 Broad St.
Industrial Chemical Co., 5th Ave Bldg.
Roessler & Hasslacher Chemical Co., 100 William St.
Williamson & Co., D. D., 86 Fulton St.
N. Y., Rochester
American Gypsum Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Okla., Enid
Independence Gypsum Co.

Calcium Sulphate—*cont.*

Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Va., North Holston
Southern Gypsum Co.
Wash., Tacoma
Pacific Coast Gypsum Co.

Calcium Sulphate, Hydrated

N. Y., Syracuse
Solvay Process Co.

Calcium Sulpho Carbolate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Calcium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Calcspar (*see Calcium Carbonate, Native*)

Calomel (*see Mercurous Chloride*)

Camphor, Gum (*see Gum Camphor*)

Camphor, Monobromated

Mich., Midland
Dow Chemical Co.

Canadium

England, London
Franklin Chemical Co., Ltd.

Candles, Fumigating

Cal., Los Angeles
Bobrick Chemical Co., 111–117 S. Garey St.

Caramel (*see Colors, Burnt Sugar*)

Carbolic Acid (*see Phenol*)

Carbon

N. Y., New York City
Acme Diamond Tool Co., 56 Liberty St.
*Diamond Drill Carbon Co., 53–63 Park Row.
N. Y., Niagara Falls
Acheson Graphite Co.

Carbon (Decolorizing)

N. Y., New York City
*Innis, Speiden & Co., Inc., 46 Cliff St.

Carbon Bisulphide

Cal., San Francisco
Stauffer Chemical Co., 624 California Ave.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Me., Portland
Brown Co.
Mich., Detroit
Dow Chemical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Independent Chemical Co., 122 West St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Chauncey, Westchester Co.
Stauffer Chemical Co.
N. Y., Penn Yan
Taylor Chemical Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
W. Va., Charleston
Rollin Chemical Co., Inc.

Carbon Dioxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Newark
National Carbonic Acid Co.
National Carbonic Gas Co.
N. Y., Brooklyn
General Carbonic Co., 444 Van Brunt St.
N. Y., New York City
*Schwenker, Inc., W. M., 342 E. 92d St.
Ohio, Cincinnati
Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
Lennox Chemical Co., 1200 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Marquette St.
Pa., Philadelphia
Carbon Dioxide & Magnesia Co., N. 29th St. and Montgomery Ave.

Carbon Dioxide, Liquefied

N. J., McClellan
Natural Carbonic Gas Co.

Carbon Tetrachloride

Cal., San Francisco
Great Western Electrochemical Co.
Ill., Chicago
Daigger & Co., A., 54-56 W. Kinzie St.
Me., Portland
Brown Co.
Mich., Midland
Dow Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340-344 E. 92d St.
Southern Oil & Chemical Co., 15 Park Row
Warner Chemical Co., The, 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
Mo., St. Louis
Mallinckrodt Chemical Works
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Lewis, John D.
W. Va., Charleston
Rollin Chemical Co., Inc.

Carbon, Vegetable

N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.

Carbonic Acid Gas (*see Carbon Dioxide*)

Carbonizer, Pack

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Carbonyl Chloride

N. Y., New York City
*Hemingway, Inc., Frank

Carborundum

N. Y., Niagara Falls
Carborundum Co.

Carmine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Carmine, Pure

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Carnotite (*see Uranium Ore*)

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.

Carpolene (*see Preservative, Wood*)

Casein

Cal., San Francisco
California Central Creameries
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Bird & Co., J. A., & W., 88 Pearl St.
N. Y., Hobart
Sheffield By-Product Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 Willaim St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
National Milk Sugar Co., 13 Park Row
*Tennant, C., Sons & Co., 100 William St.
N. Y., Owego
American Casein Co.
National Casein Co.
N. Y., Rochester
Merrell-Soule Co.
Pa., Philadelphia
Union Casein Co., 2314 Wood St.
Scotland, Glasgow
Gemmill & Co., Wm. N., 142 Queen St.

Caustic Potash (*see Potassium Hydroxide*)

Caustic Soda (*see Sodium Hydroxide*)

Celite

N. Y., New York City
Celite Products Co., 11 Broadway

Celluloid and Celluloid Substitutes

Del., Wilmington
DuPont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Chemical Co., 636 W. 22d St.
Mass., Leominster
Viscoloid Co.
N. Y., New York City
Celluloid Co., 30 Washington Place
Celluloid Zapon Co., 200 Fifth Ave.
Fiberloid Corp., 55 5th Ave.
General Bakelite Co., 2 Rector St.

Cellulose Acetate

Mich., Midland
Dow Chemical Co.

Cement, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Kellogg Co., M. W., 90 West St.
Toch Bros., 320 Fifth Ave.
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Pa., Philadelphia
Pecora Paint Co., 4th and Lawrence Sts.
R. I., Providence
U. S. Gutta Percha Paint Co.

Cement, Acid Proof, Duro

Pa., Philadelphia
Electro Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Cement, Adhesive

N. Y., New York City
General Bakelite Co., 2 Rector St.
National Gum & Mica Co., 59th St. and 11th Ave.

Cement, Alundum

Mass., Worcester
Norton Co.

Cement, Asbestos

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Ohio, Lockland
Carey Mfg. Co., Phillip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pecora Paint Co., 4th & Lawrence Sts.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.
Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Cement, Asphalt

N. Y., New York City
Texas Co., 17 Battery Place
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Cement, Bakelite

N. Y., New York City
General Bakelite Co., 2 Rector St.

Cement, Belt

Conn. Hartford
Jewell Belting Co.
Del., Wilmington
Du Pont Chemical Works
Hercules Powder Co., 10th and Market Sts.
Mo., St. Louis
Shultz Belting Co., 402 Barton St.
N. Y., New York City
International Smokeless Powder & Chemical Co., 120 Broadway
Laurence Belting Co., 111 Chambers St.
Schieren Co., Chas. A., 30-38 Ferry St.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.
Fries & Fries, 1501-13 W. 6th St.
Pa., Philadelphia
Alexander Brothers, 414 N. 3d St.

Cement, Black

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Cement, Chrome

Ohio, Cleveland
Stowe-Fuller Co., Rockefeller Bldg.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Cement Coatings

N. Y., Long Island City
Horn Co., A. C.
N. Y., New York City
Berry Bros., 262 Pearl St.

Cement, De Khotinsky

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Cement, Fire Brick

N. J., Lincoln
Atlas Mineral Products Co.

Cement, Furnace

N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Lincoln
Atlas Mineral Products Co.

Cement, Furnace, High Temperature

N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
Quigley Furnace Specialties Co., Inc., 26 Courtlandt St.
Ohio, Cleveland
Stowe-Fuller Co., Rockefeller Bldg.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Cement, Gas Retort

N. J., Lincoln
Atlas Mineral Products Co.

Cement, Graphite

Mich., Saginaw
United States Graphite Co.
N. J., Jersey City
Dixon Crucible Co., Joseph

Cement, Insulating

N. Y., New York City
Celite Products Co., 11 Broadway
Johns-Manville Co.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Cement, Keene's American

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.
Mo., St. Louis
Acme Cement Plaster Co., Frisco Bldg.

Cement, Leather Belt, Waterproof

Mo., St. Louis
Reardon Glue Mfg. Co., 127 Clinton St.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.
Fries & Fries, 1501–13 W. 6th St.

Cement Lifts, Acid Proof

N. C., Charlotte
Chemical Construction Co.

Cement, Magnesite *(see Cement, Asbestos)*

Cement, Porcelain

N. J., Bloomfield
Condensite Co. of America

Cement, Portland

Cal., Los Angeles
California Portland Cement Co., 3d and Spring Sts.
Riverside Portland Cement Co., Title Insurance Bldg.
Cal., San Francisco
Cowell Portland Cement Co., 2 Market St.
Pacific Portland Cement Co.
Riverside Portland Cement Co.
Santa Cruz Portland Cement Co.
Standard Portland Cement Corporation
Colo., Denver
Colorado Portland Cement Co., Ideal Bldg.
Three Forks Portland Cement Co.
Ga., Rockmart
Southern States Portlamd Cement Co.
Ill., Chicago
Chicago Portland Cement Co., 30 N. La Salle St.
Universal Portland Cement Co., 208 S. La Salle St.
Ill., La Salle
La Salle Portland Cement Co.
Iowa, Mason City
Northwestern States Portland Cement Co.
Kans., Independence
Western States Portland Cement Co.
Md., Baltimore
Tidewater Portland Cement Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., Kansas City
Dewey Portland Cement Co., 400 Scarritt Bldg.
Meramec Portland Cement & Material Co.
Mo., St. Louis
St. Louis Portland Cement Co., International Life Bldg.
Union Sand & Material Co.
Neb., Omaha
Nebraska Portland Cement Co.

Cement, Portland—*cont.*

N. J., Stewartsville
Edison Portland Cement Co.
N. Y., New York City
Alsen's American Portland Cement Works, 25 Broadway
Atlas Portland Cement Co., 30 Broad St.
Ohio, Cleveland
Sandusky Cement Co., Engineer's Bldg.
Ore., Oswego
Oregon Portland Cement Co.
Pa., Allentown
Allentown Portland Cement Co.
Lehigh Portland Cement Co.
Pa., Easton
Alpha Portland Cement Co.
Pa., Philadelphia
Coosa Portland Cement Co., Stock Exchange Bldg.
Giant Portland Cement Co., Penna. Bldg.
Vulcanite Portland Cement Co., Land Title Bldg.
Tenn., Chattanooga
Dixie Portland Cement Co.
Tenn., Kingsport
Clinchfield Portland Cement Corp.
Utah, Brigham
Ogden Portland Cement Co.
Utah, Ogden
Union Portland Cement Co.
Wash., Spokane
International Portland Cement Co.

Cement, Refractory

Mass., Worcester
Norton Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Cleveland
Stowe-Fuller Co., Rockefeller Bldg.

Cement, Rubber

Cal., San Francisco
Cook Belting Co., H. N., 401 Howard St.
Mass., Boston
Boston Belting Co., 84 Linden Park Station
N. J., Milltown
Michilin Tire Co.
N. Y., New York City
Goodyear Rubber Co., 787 Broadway
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Firestone Tire & Rubber Co.
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.

Cement, Waterproof

Del., Wilmington
Du Pont Chemical Works
Hercules Powder Co., 10th and Market Sts.
Mo., St. Louis
Certain-teed Products Co., 314 N. Broadway
N. Y., Buffalo
Hercules Waterproof Cement Co., Mutual Life Bldg.
N. Y., Long Island City
Horn, A. G., Co.
N. Y., New York City
Amalgamated Paint Co., 42 Broadway
Texas Co., 17 Battery Pl.
Toop Bros., 320 Fifth Ave.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.
Ohio, Cleveland
Sandusky Cement Co., Engineers Bldg.
Ohio, Sandusky
Sandusky Portland Cement Co.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Ceramic Colors (*see Colors, Ceramic*)

Ceresine

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Behrend, F., 54 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
*Strahl & Pitsch, 141 Front St.
Pa., Easton
Baker & Adamson Chemical Co.

Cerium (Metal)

N. J., Bayonne
Standard Chemical Co.
N. Y., New York City
Norton Laboratories, 296 Madison Ave.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Cerium Carbonates

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.

Cerium Chloride

N. Y., New York City
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Cerium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Cerium Oxalate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Foote Mineral Co., Inc., 113 N. 19th St.

Cerium Phosphate

Pa., Philadelphia
Foote Mineral Co., Inc., 113 N. 19th St.

Cerium Sulphate

Pa., Philadelphia
Foote Mineral Co., Inc., 113 N. 19th St.

Chalk, Precipitated

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Industrial Chemical Co., 5th Ave. Bldg.
*National Aniline & Chemical Co., Inc., 21 Burling Slip
*Salomon, L. A., & Bro., 216 Pearl St.

Chalk, Prepared

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Charcoal

Cal., Berkeley
Catalytic Chemical Co.
Cal., San Francisco
Noble Electric Steel Co., 995 Market St.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Fla., Jacksonville
Florida Woods Products Co.
Ga., Savannah
Chatham Mfg. Co.
Ill., Chicago
Charcoal Supply Co.
*Daigger & Co., A., 54 W. Kinzie St.
Laboratory Materials Co., 7404 Calumet Ave.
Ky., Kragon
Kentucky Wood Products Co., Inc.
La., New Orleans
American Turpentine & Tar Co.
Forest Products Co.
Mich., Boyne City
Boyne City Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer, Diggins Co.
Mich., Detroit
Charcoal Iron Co. of America
Desmond Charcoal & Chemical Co., 71 Lieb St.
Mich., East Jordan
East Jordan Chemical Co.
Mich., Wells
Delta Chemical Co.
Mich., West Branch
Mashek Chemical & Iron Co.
Mo., Kansas City
Alabama Charcoal Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Green St.
N. Y., Buffalo
Wood Products Co.
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
Georgia Pine & Turpentine Co., 160 Perry St.
Industrial Chemical Co., Inc., Fifth Ave. Bldg.
N. Y., Niagara Falls
National Electrolytic Co.
N. Y., Olean
Keystone Wood Products Co.
Lackawanna Chemical Co.
N. Y., Syracuse
Will & Baumer Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., 233 Bank St.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Ohio, Ironton
Phipps Charcoal Co.
Ore., Portland
Oregon Wood Distilling Co.
Pa., Bradford
Coryville Chemical Co.
Maryland Wood Products Co.
Nusbaum Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co., Inc.
Pa., Pittston
Wyoming Chemical Co.
Pa., Ridgeway
Penn Chemical Co.

Charcoal, Powdered

N. Y., New York City
Industrial Chemical Co., Fifth Ave. Bldg.

Chemicals, Agricultural

Ga., Savannah
Barker Chemical Co.
Crum & Co., W. R.
Ill., Chicago
Armour Fertiliser Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Swift & Co., Union Stock Yards
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
*Cottman & Co., J. H., Keyser Bldg.
Ober & Sons Co., G., Fidelity Bldg.
*Struven & Co., Chas. M., 114 S. Frederick St.
*Walter Co., Edw. J., 803 American Bldg.
*White & Co., Thos. H., Reed Bldg.
Mass., Boston
New England Gas & Coke Co., 24 West St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
American Agricultural Chemical Co., 2 Rector St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Nitrate Agencies Co., 102 Pearl St.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.
Va., Richmond
Virginia-Carolina Chemical Co.

Chemicals, Analytical (*see Chemicals, Laboratory*)

Chemicals, Aromatic

N. Y., New York City
*Fritzsche Bros., 82-84 Beekman St.
Ungerer & Co., 273 Pearl St.

Chemicals, Bacteriological

Mich., Detroit
Digestive Ferments Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Chemicals, Blue Print

N. Y., New York City
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Chemicals, Blue Print Sensitizing

Ill.; Chicago
Pease Co., C. F., 219 W. Institute Pl.

Chemicals, Ceramic

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Chemicals, C. P. (*see Chemicals, Laboratory*)

Chemicals, Dairy

Mich., Detroit
Digestive Ferments Co.

Chemicals, Dyers

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Jaeck Co., Louis, 257 Front St.
Marden, Orth & Hastings Corp'n, 61 Broadway
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Pa., Pittsburgh
Pearsite Co., Oliver Bldg.

Chemicals, Engravers

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
National Steel & Copper Plate Co., 542 S. Dearborn St.

Chemicals, Fireworks

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
*Williams, John T., & Son, Inc., 100 Broadway

Chemicals, Glassmakers

N. Y., New York City
Battelle & Renwick, 80 Maiden Lane
*Drakenfeld & Co., B. F., 50 Murray St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Williams, John T., & Sons, Inc., 100 Broadway
Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Heavy (*see Specific Headings*)

Chemicals, Industrial (*see Specific Headings*)

Chemicals, Laboratory

Cal., Berkeley
University Apparatus Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 576 Mission St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
Sargent & Co., E. H., 155-165 East Superior St.
Mass., Boston
*Knott
*Metcalf Co., 535 Boylston St.
Mich., Detroit
*Digestive Ferments Co.
Mo., St. Louis
*Heil Chemical Mfg. Co., 216 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Phillipsburg
*Baker Chemical Co., J. T.
N. Y., New York City
*Eimer & Amend, 205-211 Third Ave.
Empire Laboratory Supply Co., Inc., 218 E. 37th St.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Pl.
*Palo Co., 90 Maiden Lane
*Schell Chemical Co., Inc., 56 Pine St.
*Squibb & Sons, R. E., 80 Beekman St.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Chemicals, Leather

Mass., Boston
Atteaux & Co., F. E., 176 Purchase St.
N. J., Jersey City
Onyx Oil & Chemical Co., 190 Warren St.
N. Y., New York City
*Batelle & Renwick, 80 Maiden Lane
Cooper & Co., Charles, 194 Worth St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
Rohm & Haas Co., 40 N. Front St.

Chemicals, Linoleum

Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Medicinal (*see Chemicals, Pharmaceutical*)

Chemicals, Metallurgical (*see Specific Headings*)

Chemicals, Mining (*see Specific Headings*)

Chemicals, Oil Cloth

Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Oil Manufacturers (*see Specific Headings*)

Chemicals, Oil Refining (*see Specific Headings*)

Chemicals, Packers (*see Specific Headings*)

Chemicals, Paint

Ill., Chicago
Barrett, M. L., & Co., 233 N. Lake St.
*Daigger & Co., A., 54 W. Kinzie St.
Mo., Kansas City
Hood, Abner, Chemical Co., 1409 W. 10th St.
N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
N. Y., Rosebank
Dreyfus Co., L. A.
Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Chemicals, Papermakers

Mich., Kalamazoo
Western Paper Makers Chemical Co.
N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Schell Chemical Co., Inc., 56 Pine St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Chemicals, Perfumers

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Chemicals, Pharmaceutical

Ala., Montgomery
Bear Lewis Drug Co.
Cal., San Francisco
*McMains & Co., A. H., 24 California St.

Chemicals, Pharmaceutical—cont.

England, London
*Dexters, Ltd., 362 City Road.
England, Wolverhampton
Reade Bros. & Co., Ltd.
Ill., Chicago
Armour & Co.
Cutter Laboratory of Ill., 180 N. Dearborn St.
*Daigger & Co., A., 54 W. Kinzie St.
Ill., Peoria
Allaire, Woodward & Co.
Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Pitman Moore Co.
Md., Baltimore
Hynson, Westcott & Co., Charles and Franklin Sts.
Sharpe & Dohme, 303 W. Pratt St.
Mass., Boston
Eastern Drug Co., 21 Fulton St.
Levinstein & Co., Inc.
Metcalf Co., Theo., 535 Boylston St.
Patch & Co., E. L., 99 North St.
*Stickney & Poor Spice Co., 184 State St.
Mich., Charlotte
Charlotte Drug Co.
Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Nelson, Baker & Co., 58 Brooklyn Ave.
Parke, Davis & Co.
Stearns & Co., Frederick
Mich., Kalamazoo
Upjohn Co.
Minn., St. Paul
Noyes Bros. & Cutler, 376 Sibley St.
Mo., St. Louis
Barnes Mfg. Co., 302 Valentine St.
Donzelot & Son, Eugene, 16 S. Main St.
Mallinckrodt Chemical Works.
Merrell Drug Co., I. S., 4th and Market Sts.
Neb., Omaha
Cudahy Packing Co.
N. J., Jersey City
Colgate & Co.
Reed & Carnrick, 42 Germania Ave.
N. J., New Brunswick
Johnson & Johnson
Squibb & Sons, E. R.
N. J., Old Bridge
Bloomfield Mills Co.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Bristol-Myers Co., 1281 Greene Ave.
Hoagland Laboratory, Pacific and Henry Sts.
N. Y., Buffalo
Empire Drug Co., 86 Seneca St.
N. Y., Long Island City
American Druggists Syndicate
N. Y., Lebanon
Tilden Chemical Co.
N. Y., New York City
*Allied Chemical Exchange, Inc., 95-97 Liberty St.
*Anderson & Co., P. E., 99 John St.
*Battelle & Renwick, 80 Maiden Lane
Bayer Co., Inc., 117 Hudson St.
Cooper & Co., Charles, 194 Worth St.
Croeniger & Co., 99 Wall St.
Dodge & Olcott, 87 Fulton St.
*Downer & Co., 102 Fulton St.
Fairchild Bros. & Foster, 74 Laight St.
*Fritzsche Bros., 84 Beekman St.
*Fuerst Bros. & Co., 2 Stone St.
*Hemingway, Inc., Frank
Heyden Chemical Co., 135 William St.
Hilliers' Sons Co., R., 100 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Hopkins & Co., J. L., 100 William St.
Independent Chemical Co., 72 Front St.
Lederle Laboratories, 39 W. 38th St.
Lehn & Fink, Inc., 120 William St.
*Lueders & Co., Geo., 218 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
*Magnus, Mabee & Reynard, 257 Pearl St.
Marx & Rawolle, 100 William St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
New York Quinine & Chemical Co.
*Peek & Velsor, 8 Gold St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
*Rockhill & Vietor, 114 John St.
Roessler-Hasslacher Chemical Co., 100 William St.
*Schering & Glatz, 150 Maiden Lane
*Schieffelin & Co., 170 William St.
Squibb & Sons, E. R., 80 Beekman St.
*Stillwell & Co., A. A., 28 Cliff St.
Thurston & Braidich, 130 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
Weaver & Sterry, Ltd., 179 Pine St.
Wolff, Harry W., 50 E. 41st St.
N. Y., Pearl River
Lederle Antitoxin Laboratory
N. Y., Saratoga Springs
Harvey & Co., G. F.
Ohio, Cincinnati
Lloyd Bros., Plum and Court Sts.
Merrell Chemical Co., Wm. S., 5th and Pike Sts.
Proctor & Gamble

Chemicals, Pharmaceutical—*cont.*

Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*McIlvaine Bros., 15th and Hamilton Sts.
Mulford Co., H. K., 428 S. 13th St.
Powers-Weightman-Rosengarten Co.
Shoemaker & Co., Robert, 201 N. 4th St.
Smith, Kline & French Co., 431 Arch St.
Wampole & Co., H. K., 428 Fairmount Ave.
Wyeth & Bros., John, 11th and Wabash Ave.
Switzerland, Basle
Sandoz Chemical Works, 60 Fabrikstrasse
Utah, Ogden
Ogden Wholesale Drug Co.
Va., Richmond
Interstate Commerce Co., W. Broad and Meadow Sts.
Wis., Fond du Lac
Huber & Fuhrman Drug Mills

Chemicals, Photographic

Ill., Chicago
Burke & James, Inc., 240 E. Ontario St.
*Sears, Roebuck & Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Binghamton
Ansco Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Fuerst Bros. & Co., 2–4 Stone St.
General Chemical Co., 25 Broad St.
*Gennert, G., 24 E. 13th St.
Merck & Co., 45 Park Place
Parex Mfg. Co., 249 Pearl St.
Wolff, Harry W., 50 E. 41st St.
N. Y., Rochester
American Photo Chemical Co., Inc.
Bausch & Lomb Optical Co.
Defender Photo Supply Co.
Eastman Kodak Co.
Ohio, Cincinnati
Prince, L. M., Co., 108 W. 4th St.
Pa., Philadelphia
*Phillips & Jacobs, 622 Race St.

Chemicals, Pottery (*see Specific Headings*)

Chemicals, Printing Ink

Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Chemicals, Rare Organic

N. Y., New York City
Van Dyk & Co., 4–6 Platt St.

Chemicals, Reduction Ore (*see Specific Headings*)

Chemicals, Refrigeration (*see Specific Headings*)

Chemicals, Rubber Manufacturers (*see Specific Headings*)

Chemicals, Steel

Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Chemicals, Steel Manufacturers (*see Specific Headings*)

Chemicals, Tanners (*see Chemicals, Leather*)

Chemicals, Textile

Mass., Boston
Atlantic Chemical Co., 50 Congress St.
*Durfee, Winthrop C., 516 Atlantic Ave.
U. S. Color & Chemical Co., 93 Broad St.
N. J., Jersey City
Oynx Oil & Chemical Co., 190 Warren St.
N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane
*Farquhar, H. D., 230 W. 17th St.
Herrick & Voigt, 68 Maiden Lane
Marden, Orth & Hastings Corp'n, 61 Broadway
Metz & Co., Herman A., Inc., 122 Hudson St.
*Schell Chemical Co., 56 Pine St.
N. Y., Wappingers Falls
Standard Aniline Products Co.
Pa., Philadelphia
Philadelphia Textile Chemical Works, Arrott and P. R. R.

Chemicals, Varnish

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Fuerst Bros & Co., 2 Stone St.
Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Chemicals, Water Purifying

Chili Saltpetre (*see Sodium Nitrate*)

China, Clay (*see Clay, China*)

Chloral Hydrate

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.
N. Y., New York City
Hoffman-LaRoche Chemical Works, 440 Washington St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Schering & Glatz, 150 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Chloramine-T

Ill., La Salle
Carus Chemical Co.

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and Lafayette Ave.

Chloranilin

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Chlorbenzene

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
N. Y., Niagara Falls
Niagara Alkali Co., Buffalo Ave. and Union St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Hooker Electrochemical Co., 40 Wall St.
Marden, Orth & Hastings Corp'n, Inc., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Chlorbenzol (*see Chlorbenzene*)

Chlorcosane

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and Lafayette Ave.

Chloresterine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Chlorhydrin

Mich., Midland
Dow Chemical Co.

Chloride, Calcium-Magnesium

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.
W. Va., Malden
Dickinson Co., J. Q.

Chloride of Lime (*see also Calcium Hypochlorite and Bleach*)

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Rogers Chemical Co., R. R., 527-535 Commercial St.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mich., Midland
Dow Chemical Co.
N. Y., Albany
Wander & Son Chemical Co., S., 135 Church St.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Flotation Oil & Chemical Co., 2 Rector St.
Hooker Electrochemical Co., 40 Wall St.
*Innis, Speiden & Co., 46 Cliff St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Va., Saltville
Mathieson Alkali Works

Chlorine

Cal., Pittsburgh
Great Western Electrochemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Me., Portland
Brown Co.
Electron Chemical Co., 534 Congress St.
N. J., Bloomfield
Condensite Co. of America.

Chlorine—*cont.*

N. Y., New York City
*Bush, Beach & Gent, Inc., 80 Maiden Lane
Electro Bleaching Gas Co., 18 E. 41st St.
General Chemical Co., 25 Broad St.
Hooker Electro Chemical Co., 40 Wall St.
*Innis, Speiden & Co., 46 Cliff St.
Metal & Thermit Corporation, 120 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Castner Electrolytic Alkali Co.
Niagara Smelting Corporation
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
Va., Saltville
Mathieson Alkali Co., Inc.

Chloroform

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Mich., Midland
Dow Chemical Co.
N. H., Portland
Brown Co.
N. J., New Brunswick
Johnson & Johnson
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Pl.
Pfizer & Co., Chas., 81 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.

Chrome Acetate (*see Chromium Acetate*)

Chrome Alum (*see Alum, Chromium*)

Chrome Bisulphite (*see Chromium Sulphite*)

Chrome Black

N. J., Passaic
American Color Mfg. Co.
Wolf & Co., Jacques
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Metz & Co., H. A., 122 Hudson St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Chrome Cement

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Chrome Chloride (*see Chromium Chloride*)

Chrome Fluoride (*see Chromium Fluoride*)

Chrome Green, C. P. (*see also Chromium Oxide*)

N. Y., Glens Falls
Imperial Color Works, Inc., Warren St.

Chrome Hydroxide (*see Chromium Hydroxide*)

Chrome Lemon

England, Lancashire, Chorley
Threlfall & Sons, Thomas

Chrome Ore (Chromite)

N. Y., New York City
*Hardy, Charles, 50 Church St.
Leavitt & Co., C. W., 30 Church St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Foote Mineral Co., 107 N. 19th St.
Pa., Pittsburgh
Harbison-Walker Refractories Co.

Chrome Oxide (*see Chromium Oxide*)

Chrome Red

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Chrome Sulphate (*see Chromium Sulphate*)

Chrome Yellow

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit
International Color & Chemical Co.
N. J., Newark
Cawley, Clark & Co.
N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
*Ketchum & Co., 65 Fulton St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Chrome Yellow, C. P.

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Chromium (*Metal*)

N. Y., New York City
Metal & Thermit Co., Inc., 120 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co.

Chromium Acetate

England, Manchester
Robinson & Co., H. F., Newton Heath
Mass., Boston
Avery Chemical Co., 88 Broad St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Holliday, Read & Sons (Ltd.), 160 Franklin St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Chromium Chloride

England, Manchester
Robinson & Co., H. F., Newton Heath
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Chromium Fluoride

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chromium Hydroxide

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chromium Oxide (*see also Chromium Trioxide*)

England, Wolverhampton
Bailey & Sons, William
Ill., Chicago
*Stresen-Reuter & Hancock, Inc.
Mich., Detroit
International Color & Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Chromium Pyrophosphates

England, Manchester
Victors, Ltd., Victoria Bldg.

Chromium Sulphate

England, Manchester
Robinson & Co., H. F., Newton Heath
Mass., Boston
Avery Chemical Co., 88 Broad St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Monsanto Chemical Works, 2d St. and Lafayette Ave.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Squibb, E. R., & Sons, 80 Beekman St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas, Arthur H., Co., W. Washington Square

Chromium Sulphite

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chromium Trioxide (*see also Chromium Oxide*)

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Pl.
*Squibb, E. R., & Sons, 80 Beekman St.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Chysamine G

Ill., Quincy
Monroe Color & Chemical Co.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Drug & Dyestuff Corp., 120 Broadway
National Aniline & Chemical Co., 21 Burling Slip
Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Chrysoidine

N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., 21 Burling Slip
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
R. I., Providence
Industrial Chemical Co., 283 Pitman St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Chrysophenine

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
National Aniline & Chemical Co., 21 Burling Slip

Cicutine (*Coniine*) Hydrobromide

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Citral

N. Y., New York City
Bush & Co., W. J., 100 William St.
Dodge & Olcott Co., 87 Fulton St.

Citronellol

N. Y., New York City
Florasynth Laboratories, Inc., 23 Pearl St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Clay

Cal., Los Angeles
Pacific Mineral Products Co.
Cal., San Francisco
Clark & Sons, 116 Natoma St.
Ind., Evansville
Uhl Pottery Co.
Mass. Boston
Eastern Clay Goods Co.
Mich., Kalamazoo
Western Paper Makers Chemical Co.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exch. Bldg.
Walsh Fire Clay Products Co., 4070 N. Main St.
N. J., Lincoln
Atlas Mineral Products Co.
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 126 Duane St.
Ohio, Akron
Robinson Clay Products Co., Fuller Bldg.
Ohio, East Akron
Knight, Maurice A.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Block

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Crucible

Mo., St. Louis
Laclede-Christy Co., Railroad Exchange Bldg.
N. J., Jersey City
Dixon Crucible Co., Joseph
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, English Enamel

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Clay, Fire, Ground Plastic

Ill., Oglesby
Illinois Clay Products Co.

Clay, Pipe

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Clay, Pot

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Technical

N. Y., New York City
Goeble & Co., J., 129 Maiden Lane

Clay, Vallender

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Clay, White China

N. Y., New York City
*Johns & Co., Inc., 50 Church St.

Cloth Scarlet G.

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Coal Tar Products *(see Crudes, Intermediates, Dyestuffs)*

Coatings, Acid Proof *(see also Paints)*

Mich., Detroit
Trus-Con Laboratories
Mo., St. Louis
Certain-teed Products Corporation, 314 Broadway
N. Y., New York City
Toch Bros., 320 Fifth Ave.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Glidden Varnish Co., 11001 Madison Ave.
Pa., Philadelphia
Flexible Compound Co., 3607 Haverford Ave.
R. I., Providence
U. S. Gutta Percha Paint Co.

Coatings, Wood

Ohio, Warren
Goheen Mfg. Co., Main St.

Cobalt *(Metal)*

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Metal & Thermit Corporation, 120 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.
Pa., Primos
Primos Chemical Co.
W. Va., Huntington
Standard Ultramarine Co.

Cobalt Acetate

N. Y., New York City
*Drakenfeld & Co., B. F., 50 Murray St.
*Franco-American Chemical Co., 8 Gold St.
*Harshaw, Fuller & Goodwin Co.
Metal & Thermit Corporation, 120 Broadway.
*Sloan & Russell, Inc., 132 Nassau St.

Cobalt Ammonium Sulphate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cobalt Borate

Drakenfeld & Co., B. F., 50 Murray St.

Cobalt Carbonate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
Drakenfeld & Co., B. F., 50 Murray St.
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Cobalt Chloride

N. Y., New York City
*Drakenfeld & Co., B. F., 50 Murray St.
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Cobalt Hydrate (*see Cobalt Hydroxide*)

Cobalt Hydroxide

N. Y., New York City
Drakenfeld & Co., B. F., 50 Murray St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cobalt Linoleate

N. J., Jersey City
Sizings Specialties Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cobalt Nitrate

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cobalt Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Cobalt Oxide

England, Wolverhampton
Bailey & Son, William
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Cobalt Phosphate

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.

Cobalt Resinate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Harrison
National Oil Products Col, Essex and First Sts.

Cobalt Resinate, Fused

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Cobalt Resinate, Precipitated

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cobalt Sulphate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Cocaine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Hoffman-LaRoche Chemical Works
Merck & Co., 45 Park Pl.
New York Aniline & Chemical Works
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cochineal

N. Y., New York City
Berlin Aniline Works, 213 Water St.
Holliday, Read & Co. (Ltd.), 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
*Ransom Co., L. E., 279 Pearl St.
Pa., Philadelphia
Harmer Laboratories Co.

Codeine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Hoffman-LaRoche Chemical Works
Merck & Co., 45 Park Pl.
New York Auiline & Chemical Works
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Colchicine

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Ind., Indianapolis
Eli Lilly & Co., 224 E. McCarthy St.

Collodion

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Carlstadt
Franco-American Chemical Co.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Schieffelein & Co., W. H., 170 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Collodion, Negative

N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.

Collodion, U.S.P.

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Colocynthin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Colors *(see also Dyestuffs)*

Colors, Acid *(see also Dyestuffs)*

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Sloan & Russell, Inc., 132 Nassau St.

Colors, Agricultural

Ill., Chicago
Alston-Lucas Paint Co., Wade and Currier Sts.
Mich., Detroit
Detroit White Lead Works, 560 Milwaukee Ave.
N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
N. Y., New York City
Ansbacher, A. B., & Co., 527 5th Ave.
Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.
N. Y., New York City
Kohnstamm & Co., H., 87 Park Place
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Alizarine *(see Colors and Dyestuffs)*

Colors, Aniline *(see Aniline)*

Colors, Artists' Tube

N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.

Colors, Brick

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. & M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
Pa., Easton
Williams & Co., C. K.

Colors, Butter

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
Mass., South Boston
Northern Industrial Chemical Co., 11 Elkins St.
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Little Falls
Burrell & Co., D. H.
Chr. Hansen's Laboratory, Inc.
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Heller & Merz Co., 505 Hudson Ave.
Vt., Burlington
Wells & Richardson Co.

Colors, Canned Goods *(see also Colors, Food)*

Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
N. Y., New York City
*Maas, Waldenstein Extract Co., 100 William St.

Colors, Caramel

Ill., Chicago
Sethness Co., 718 N. Curtis St.

Colors, Carmine

N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
N. Y., Rosebank, S. I.
Siegle Co., G.

Colors, Carmoisine

N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.

Colors, Carnotone

N. Y., New York City
Holliday, Read & Sons, 160 Franklin St.
Kalle Color & Chemical Co., 540 Canal St.

Colors, Celluloid Dips

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Colors, Cement

N. Y., New York City
Toch Bros., 320 Fifth Ave.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Ceramic

N. J., Newark
American Oil & Supply Co.
N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Rosebank, S. I.
Siegle Co., G.

Colors, Certified and Technical

Ill., Chicago
*Sethness Co., 718 N. Curtis St.
N. Y., New York City
*Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
Kohnstamm & Co., H., 87 Park Place
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Mabee & Reynard, 257 Pearl St.
Star Extract Works, 8 W. Broadway

Colors, Cheese

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Wis., Madison
Marschall Dairy Laboratory, 14 Proudfit St.

Colors, Chrome *(see Dyestuffs)*

Colors, Chrome, for Printing

N. J., Matawan
Chrome Color Works
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Colors, Coal Tar *(see Dyestuffs)*

Colors, Confectioners

Ill., Chicago
Chapman & Smith Co., Washington Blvd. and S. Carpenter St.
Heller, B., & Co., 3925 Calumet Ave.
N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.
Kohnstamm & Co., H., 83-89 Park Pl.
National Aniline & Chemical Co., 21 Burling Slip
N. Y., Rosebank, S. I.
Siegle Co., G.
Ohio, Dayton
Ritzler, Charles E., Co.
Pa., Hanover
Acme Extract & Chemical Works
Pa., Philadelphia
Ottens, Henry H., Mfg. Co., Inc., 129 S. Front St.

Colors, Diamine

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
Producers' Chemical Corporation, 261 Broadway

Colors, Direct *(see Dyestuffs)*

Colors, Dry

Cal., San Francisco
California Ink Co., 41 Clementina St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Md., Baltimore
Bloede Co., Victor G.
Mass., Boston
Cabot, G. L.
Mich., Detroit
Acme White Lead & Color Works
Detroit White Lead Works
Mich., Grand Rapids
Alabastine Co.
Mo., St. Louis
Certain-teed Products Corporation, 314 Broadway
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.
N. J., Newark
Cawley, Clark & Co.
Jaenecke-Ault Co., Ave. B and Wright St.
N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
Bielenberg Co., A., 67-69 Front St.
*Binney & Smith, 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Cresent Color & Chemical Works, Inc.
Devoe, F. W. and C. T. Raynolds Co.
Hellenic Chemical & Color Co., Inc.
Heller & Merz Co., 505 Hudson St.
Kohnstamm & Co., H., 87 Park Pl.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Colors, Dry—*cont.*

N. Y., New York City—cont.
Metz & Co., H. A., 122 Hudson St.
National Gum & Mica Co., 59th St. and 11th Ave.
National Lead Co., 111 Broadway
Sinclair & Valentine Co., 611 W. 129th St.
Toch Bros., 320 Fifth Ave.
Ohio, Cincinnati
Ault & Wiborg Co.
Ohio, Cleveland
Fleming Chemical Co., The, 1711 Crawford Road
Glidden Co., Madison Ave. and Berea Road
Pa., Easton
Williams & Co., C. K.

Colors, Dry Earth

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Colors, Earth

Ill., Chicago
*Stresen-Reuter & Hancock, Inc.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
*Smith & Co. J. Lee, 23 Jacob St.
*Waldo, E. M. & F., 11 Broadway

Colors, Enamel

N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.

Colors, Food

Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
Beekler Co., Jno. G., 722 Curtis St.
Heller & Co., B., Calumet and 40th St.
Hutchinson & Son, W. H., 196 Desplaines St.
Kelso & Co., 559 W. Quincy St.
Price Flavoring Extract Co., 237 E. Superior St.
Sethness Co., 718 N. Curtis St.
Ill., Quincy
Monroe Drug Co.
Md., Baltimore
Bloede Co., Victor G.
Mass., Boston
Murray Co., 224 State St.
Mich., Detroit
Digestive Ferments Co.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. J., West Hoboken
Palisade Mfg. Co.
N. Y., Brooklyn
Preservaline Mfg. Co., 854 Lorimer Ave.
N. Y., Little Falls
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
*Bush, W. J., & Co., 100 William St.
Chaskel Chemical Co., 265 W. Broadway
Gowing & Co., Inc., D. H., 47 W. 34th St.
Kohnstamm, H., & Co., 87 Park Place
*Lathrop & Co., Inc., H. R., 200 Water St.
*Maas & Waldstein Co., 100 William St.
Nitrate Agencies Co., 85 Water St.
Williams Mfg. Co., 1947 1st Ave.
N. Y., Potsdam
Thatcher, H. D., & Co.
N. Y., Rosebank, L. I.
Siegle Co., G.
Ohio, Cincinnati
Alexander Co., M. H., 226 E. Front St.
Cincinnati Extract Works Co., 226 E. Pearl St.
Pa., Philadelphia
Twitchell Co., S., 225 Vine St.
Va., Richmond
Sauer Co., C. F.

Colors, Glass (*see also Colors, Ceramic*)

N. Y., New York City
*Drakenfeld, B. F., & Co., 50 Murray St.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.

Colors, Ink

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane.

Colors, Japan

Cal., San Francisco
Fuller & Co., W. P.
Ill., Chicago
Adams & Elting Co., 712 Washington Blvd.
Chicago Varnish Co., 2100 Elston Ave.
Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Boydell Bros. White Lead & Color Co., 18 Congress St.
Detroit White Lead Works, 560 Milwaukee Ave.
N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
Moore & Co., Benj., 231 Front St.

Colors, Japan—*cont.*

N. Y., New York City
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Longman & Martinez, 207 Pearl St.
Valentine & Co., 456 4th Ave.
Ohio, Dayton
Lowe Bros. Co.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Graves Co., N. Z., 22 S. 3d St.
Lucas & Co., John, 322 Race St.

Colors, Lake (*see also Colors, Dry*)

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Hellenic Chemical & Colors Co., Inc., 1 Cedar St.
Heller & Merz, 503 Hudson St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, Inc., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.

Colors, Leather (*see also Colors, Pigment*)

Mass., Boston
Atteaux & Co., F. E.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., New York City
Cassella Color Co., 182 Front St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Metz & Co., H. A., 122 Hudson St.
Nitrate Agencies Co., 85 Water St.
Stamford Mfg. Co., 82 Wall St.

Colors, Lustre

N. J., Newark
Hanovia Chemical & Mfg. Co., Chestnut St. & N. J. Railroad Ave.

Colors, Malt

N. Y., New York City
Williamson & Co., Inc., D. D., 86 Fulton St.

Colors, Marble

N. Y., New York City
Devoe, F. W., & C. T. Reynolds Co., Fulton and William Sts.
Kohnstamm & Co., H., 87 Park Place
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Metallic

N. Y., New York City
Riebe & Co., Edgar C., 276 Water St.
Wash., Tacoma
Mashell Paint Co.

Colors, Mineral

N. Y., New York City
*Hemingway & Co., Ltd., 1 Broadway
*Smith & Co., J. Lee, 23 Jacob St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Colors, Mortar

Pa., Philadelphia
French & Co., Samuel H., 410 Callowhill St.

Colors, Ochre

Ga., Cartersville
Cherokee Ochre Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Pa., White Haven
Luzerne Ochre Mfg. Co.

Colors, Oil

Cal., San Francisco
Fuller & Co., W. P.
England, Lancashire
Shove, Ltd., J. B. & W. R.
Ind., South Bend
O'Brien Varnish Co., Washington and Johnson Sts.
Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
Murphy Varnish Co.
N. Y., Brooklyn
Masury & Sons, J. W., 50 Jay St.
N. Y., New York City
Amerian Aniline Products, Inc., 80 Fifth Ave.
Apex Color Works, 50 W. Broadway
Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.
Ohio, Cleveland
Sherwin-Williams Co., 601 Canal Road, N. W.
Ohio, Dayton
Lowe Bros. Co.
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Paint (*see also Colors, Venetian Red*)

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
Masury, J. W., & Son, 50 Jay St.
Mo., St. Louis
Certain-teed Products Corporation, 314 N. Broadway
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
Kohnstamm, H., & Co., 87 Park Pl.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Smith & Co., J. Lee, 23 Jacob St.
Ohio, Cleveland
Sherwin-Williams Co.

Colors, Papermakers

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Metz & Co., H. A., 122 Hudson St.
*Smith & Co., J. Lee, 23 Jacob St.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Lucas & Co., Jno., 322 Race St.

Colors, Perfume

N. Y., New York City
Lieber & Co., Inc., H., 14 Platt St.

Colors, Porcelain

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Pulp

Md., Baltimore
Bloede Co., Victor G., Caton Ave., Station "D"
N. Y., Glens Falls
Imperial Color Works, Inc., Warren St.
N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.
Pa., Philadelphia
Pecora Paint Co., 4th & Lawrence Sts.

Colors, Rubbermakers

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Kohnstamm & Co., H., 87 Park Place
Marden, Orth & Hastings Corp'n, 61 Broadway
Martin Co., L., 81 Fulton St.
*Smith & Co., J. Lee, 23 Jacob St.
Pa., Philadelphia
Westmoreland Chemical & Color Co., 925 Chestnut St.

Colors, Soap

N. Y., New York City
Lieber & Co., Inc., H., 14 Platt St.

Colors, Spirit Soluble

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane.

Colors, Sugar

N. Y., New York City
Williamson & Co., Inc., D. D., 86 Fulton St.

Colors, Sugar, Burnt

Ohio, Cleveland
Forest City Paint & Varnish Co., 3334 Lakeside Ave.
Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
Sethness Co., 718 N. Curtis St.
N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.
McKesson & Robbins, Inc.
Williamson & Co., Inc., D. D., 86 Fulton St.
Ohio, Cincinnati
Alexander Molasses Co., 3271 Spring Grove Ave.
Fries & Fries, 1501-13 W. 6th St.

Colors, Sulphur

Mass., Boston
Atteaux & Co., F. E., 176 Purchase St.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Century Colors Corp., 182 Front St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
Wright Chemical Corporation, 38 Park Row
N. Y., Wappingers Falls
Standard Aniline Products Co., Inc.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square

Colors, Sulphur, Levuline for

N. J., Passaic
*Wolf, Jacques, & Co.

Colors, Surface Coating

N. Y., Glen Falls
Imperial Colors Works, Inc.

Colors, Thion

N. Y., New York City
Kalle Color & Chemical Co., 830 Canal St.

Colors, Tin

N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.

Colors, Ultramarine (*see Ultramarine*)

Colors, Varnish

Ill., Chicago
Chicago Varnish Co., 2100 Elston Ave.
N. Y., Long Island City
Smith & Co., Edw.
N. Y., New York City
Berry Bros., 262 Pearl St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Colors, Vegetable

N. Y., New York City
Dodge & Olcott Co., 87 Fulton St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Colors, Venetian Red

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway
*Smith Co., J. Lee, 19 Jacob St.
Pa., Reading
Wilhelm Co., The, A.

Colors, Vinegar

Ill., Chicago
Barrett & Co., M. L.
N. Y., New York City
Williamson & Co., Inc., D. D., 86 Fulton St.

Colors, Wall Paper, Pulp

N. Y., Glen Falls
Imperial Color Works, Inc.

Colors, Water

N. Y., New York City
Chaskel Chemical Works, 265 W. Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway
Pa., Philadelphia
Twitchell, S., Co., 225 Vine St.

Colors, Wood Stains

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane.

Compounds, Cable

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Finishing

Mass., Atlantic
Bosson & Lane

Compounds, Impregnating

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Moulding

Mo., St. Louis
Dielectric Mfg. Co.

Compounds, Scrooping

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Compounds, Sizing

Mass., Atlantic
Bosson & Lane

Compounds, Waterproofing

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.
N. Y., New York City
Toch Bros., 320 Fifth Ave.

Compounds, Waterproofing Cement

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Condensite-Celluron

Pa., Bridgeport
Diamond State Fibre Co.

Copper

Cal., San Francisco
Selby Smelting & Lead Co.
Colo., Colorado Springs
United Stated Reduction & Refining Co.
Conn., Bridgeport
Bridgeport Brass Co.
Conn., Waterbury
American Brass Co., The
Mass., Boston
U. S. Smelting, Refining & Mining Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Mont., Anaconda
Anaconda Copper Mining Co.

Copper—*cont.*

N. J., Chrome
U. S. Metals Refining Co.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Hungerford Brass & Copper Co., U. T., 80 Lafayette St.
Nassau Smelting & Refining Works, 605 W. 29th St.
U. S. Metals Refining Co.
U. S. Smelting Co., Inc., 120 Broadway
Wash., Tacoma
Tacoma Smelting Co.

Copper Acetate

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Merck & Co., 45 Park Pl.
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
R. I., Providence
*Lewis, John D.

Copper Amalgam

Del., Milford
Caulk Co., The L. D.

Copper, Benedict

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Copper Carbonate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
N. J., Matawan
Munning Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John Co., 273 Green St.
N. Y., New York City
Cooper, Chas. & Co., 194 Worth St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Copper Chloride

England, Wolverhampton
Bailey & Son, William
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Cyanide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Cooper Chas., & Co., 194 Worth St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Linoleate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Copper Nitrate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Seldner & Enequist, Hausman St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
General Chemical Co., 25 Broad St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Oleate

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Oxide

England, Wolverhampton
Bailey & Son, William
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda, H. John C., & Co., 273 Green St.

Copper Oxide—*coni.*

N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Copper Palmitate

Ohio Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Resinate

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Copper Scale

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Copper Stearate

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Copper Suboxide

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
England, Wolverhampton
Bailey & Sons, William

Copper Sulphate

Cal., San Francisco
Selby Smelting & Lead Co.
Stauffer Chemical Co.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
Central Chemical Co., 111 W. Washington St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Matawan
Munning Loeb Co.
N. J., Perth Amboy
Raritan Copper Works
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Beer, Sondheimer & Co., Inc., 42 Broadway
*Chemical Importing & Mfg. Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
*Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
*Independent Chemical Co., 122 West St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., Inc., William and John Sts.
Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Nichols Copper Co., 25 Broad St.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
*Ferguson Bros.
Ohio, Cincinnati
Buchanan Products Co., 118 E. Pearl St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Copper Sulphate, Extra, Tech.

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Copper Sulphocyanate

England, London, E. C. 3
Berk & Co., Ltn., F. W., 1 Fenchurch Ave.

Copperas (*see Ferrous Sulphate*)

Coralline

Pa., Philadelphia
Harmer Laboratories Co.

Corrosive Sublimate (*see Mercuric Chloride*)

Corundum

Mass., Cambridge
Exlon Co., The, 156 Sixth St.
Speare's Alden Sons Co.
N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Cotton, Soluble

Del., Wilmington
Du Pont Chemical Works
Hercules Powder Co.
N. J., Wallington
Anderson Chemical Co.
N. Y., New York City
Celluloid Zapon Co., 200 Fifth Ave.
Cooper, Chas., & Co., 194 Worth St.

Cotton Solutions (*see Nitrocellulose*)

Coumarin

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and Lafayette Ave.
N. Y., Brooklyn
Zobel Color Works, Inc., 95-127 Ninth St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
Hoffman, LaRoche Chemical Works
Merck & Co., 45 Park Pl.
National Gum & Mica Co., 59th St. and 11th Ave.
Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Crayons, Chalk

N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Ohio, Sandusky
American Crayon Co.

Crayons, Checking

N. J., Newark
Faber, A. W., 41 Dickerson St.

Crayons, Colored

N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Newark
Faber, A. W., 41 Dickerson St.
N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.
N. Y., Brooklyn
Faber, Eberhard, 137 Greenpoint Ave.
N. Y., New York City
American Lead Pencil Co., 220 5th Ave.
Binney & Smith Co., 81 Fulton St.
Eagle Pencil Co., 377 Broadway
Ohio, Sandusky
American Crayon Co.

Crayons, Soapstone

N. Y., New York City
Talc Products Co., 11 Pine St.

Cream of Tartar (*see Potassium Acid Tartrate*)

Creosote

Del., Wilmington
Du Pont de Nemours Co., E. I.
Fla., Jacksonville
Florida Wool Products Co.
Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Ill., Chicago
Lewis Mfg. Co., F. J.
La., New Orleans
American Turpentine & Tar Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., 17 Battery Pl.
*Fougera & Co., E., 80 Beekman St.
Georgia Pine Turpentine Co.
Merck & Co., 45 Park Pl.
Pa., Mayburg
Tionesta Valley Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Milwaukee
Newport Chemical Works, Inc.

Creosote, Carbonate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Creosote, Carbonate, U.S.P.

Fla., Jacksonville
Florida Wood Products Co.

Creosote, Coal Tar

Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Standard Naval Stores Co.
Ill., Chicago
Lewis, F. J., Mfg. Co.

Creosote, Dark

Del., Wilmington
Du Pont de Nemours Co., E. I.

Creosote Oil (*see Oils, Creosote*)

Creosotes, Soluble

England, Darlington
Parkin, Ness & Co., Quebec St.
Del., Wilmington
Du Pont de Nemours Co., E. I.

Cresol (*see Acid, Cresylic*)

Cresoli, Liquor

England, Darlington
Parkin, Ness & Co., Quebec St.

Cresol, Meta

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Merck & Co., 45 Park Pl.
Wis., Milwaukee
Newport Chemical Works, Inc.

Cresol, Ortho

N. Y., New York City
Barrett Co., 17 Battery Place
Merck & Co., 45 Park Pl.
National Gum & Mica Co., 59th St. and 11th Ave.
Wis., Milwaukee
Newport Chemical Works, Inc.

Cresol, Para

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Wis., Milwaukee
Newport Chemical Works, Inc.

Cresols (*special bacteriological*)

Ind., Indianapolis
Eli Lilly & Co., 224 E. McCarthy St.
Pa., Philadelphia
Mulford Co., H. K.

Cresols, Crude

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Crudes, Coal Tar Derivatives

Ala., Birmingham
Tennessee Coal, Iron & R. R. Co.
Colo., Denver
American Coal Reduction & By-Products Mfg. Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Ill., Chicago
American Tar Products Co., 208 S. LaSalle St.
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Mass., Holbrook
Baird & McGuire, Inc.
Mich., Midland
Dow Chemical Co., The
Mo., St. Louis
Laclede Chemical Co., 616 Washington St.
Monsanto Chemical Co., 1800 S. 2d St.
Neb., Omaha
Nebraske Blaugas Co., 28th and Boyd Sts.
N. J., Elizabeth
Bayway Chemical Co., Bayway
N. J., Orange
Edison, Inc., Thomas A.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Merck & Co., 45 Park Pl.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Amherst
Briggs Chemical Works
Ohio, Cincinnati
Chatfield Mfg. Co.
Ohio, Cleveland
Grasselli Powder Co.
Ohio, Lockland
Carey Mfg. Co., Philip
Ohio, Toledo
Atlas Chemical Co. (Capital $1,000,000)
Pa., Johnstown
Union Chemical & Refining Co., Box 974
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
United Gas Improvement Co.
Pa., Pittsburgh
Carnegie Steel Co.
Pittsburgh By-Products Coke Co.
Wash., Spokane
Betts Co., C. G., Erie and B. P. Tracks
Wis., Milwaukee
Newport Hydro-Carbon Co., 1112 First National Bank Bldg.

Cryolite

Ill., Chicago
National Alum Co.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
Cooper & Co., Chas., 194 Worth St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Crystolon

Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.

Crystals, Snow Flake

N. Y., Syracuse
Solvay Process Co.
Pa., Pittsburgh
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

Culture, Bulgarian Milk

N. Y., Little Falls
Hansen's Laboratory, Inc., Chr.

Culture, Lactic Ferment

N. Y., Little Falls
Hansen's Laboratory, Inc., Chr.

Culture Media

Mich., Detroit
Digestive Ferments Co.

Cumaron

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
Barrett Co., 17 Battery Place

Cup Ferron

Pa., Philadelphia
Harmer Laboratories Co.

Cupric Oxide, Red and Black

N. J., Jersey City
Import Chemical Co., 162 First St.

Cuprous Chloride

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Cuprous Oxide, Red and Black

N. J., Jersey City
Import Chemical Co., 162 First St.

Curdalac

N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.

Cutch (*see Extracts, Cutch*)

Cutch, Sulphur

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Cyanamid

N. Y., New York City
American Cyanamid Co., 511 5th Ave.

Cyanide (*see Potassium Cyanide and Sodium Cyanide*)

Cyanide Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Huisking, Inc., Chas. L., 5 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Grasselli Chemical Co.

Cyanide Mixture

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Cyanide of Potash (*see Potassium Cyanide*)

Cymene (*see Essential Oil*)

Decolorizing Materials

N. Y., New York City
Drakenfeld & Co., Inc., 50 Murray St.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.

Degras

England, London
*Dexters, Ltd., 362 City Road
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Fuerst Bros. & Co., 2 Stone St.
Fuller & Co., Ralph L., 4 Rector St.
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Southern Oil & Chemical Co., 15 Park Row
N. Y., Niagara Falls
Acheson Graphite Co.

Deodorizing Materials (*see Bleach, Bleaching Powder and Chloride of Lime*)

Dertergine

Mass., Atlantic
*Bosson & Lane

Dextrine

Conn., New Haven
Hubinger Bros. Co., J. C.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Iowa, Cedar Rapids
Douglas Co.
Md., Baltimore
Bloede, Victor G., Co., Caton Ave., Station "D"
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.

Dextrine—*cont.*

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Arabol Mfg. Co., 100 William St.
Cooper & Co., Chas., 194 Worth St.
Corn Products Refining Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Dextrose

Mich., Detroit
Digestive Ferments Co.
N. Y., New York City
Merck & Co., 45 Park Pl.

Diacetyl-Morphine-Hydrochloride

N. Y., New York City
Heyden Chemical Works, 135 William St.
New York Quinine & Chemical Works, Inc.

Diacetyl-Morphine, Pure

N. Y., New York City
Heyden Chemical Works, 135 William St.
New York Quinine & Chemical Works, Inc.

Diamalt

Ohio, Cincinnati
American Diamalt Co., 419 Plum St.

Diamidobenzene

N. Y., New York City
Middlesex Aniline Co., Inc., 149 Broadway

Diamidophenol

N. J., Perth Amboy
General Supply Co., Market St. & Bertrand Ave.
N. Y., New York City
Klipstein & Sons Co., E. C., 644 Greenwich St.

Dianisidine

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Diastafor

Ohio, Cincinnati
American Diamalt Co., 419 Plum St.

Diastase

Ill., Chicago
Armour & Co., Union Stock Yards
Mich., Detroit
Digestive Ferments Co., 240 Henry St.
N. Y., New York City
Malt-Diastase Co., 79 Wall St.
Merck & Co., 45 Park Place

Diastase, Tala

Mich., Detroit
Parke, Davis & Co.

Diastoid

Wis., Racine
Horlick's Malted Milk Co.

Diastosol

Ohio, Cincinnati
American Diamalt Co., 419 Plum St.

Diax

N. Y., New York City
Malt-Diastase Co., 79 Wall St.

Dibrom Indigo

Mich., Midland
Dow Chemical Co.

Dichloramine-T

Mo., St. Louis
Monsanto Chemical Works, 2nd St. & Lafayette Ave.

Dichlorbenzene

Del., Wilmington
Du Pont Chemical Works
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Electro Bleaching Gas Co., 18 E 41st.
Hooker Electrochemical Co., 40 Wall St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
N. Y., Niagara Falls
Niagara Alkali Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
W. Va., Charleston
Rollin Chemical Co., Inc.

Dichlorbenzene, Ortho (*see Dichlorbenzene*)

Dichlorbenzene, Para (*see Dichlorbenzene*)

Dichlormethane

Mich., Midland
Dow Chemical Co.

Dicyandiamid

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Didymium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.

Diethylaniline

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 176 Front St.
Edgertyn Aniline Corp., 118 William St.
Rector Chemical Co., 2 Rector St.

Digestive Ferments

Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co.

Digitalin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Ind., Indianapolis
Eli. Lilly & Co., 224 E. McCarthy St.

Dimethylamidoazobenzene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylamidobenzaldehyde, Para

Pa., Philadelphia
Harmer Laboratories Co.

Dimethylamidobenzaldehyde

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylaminoazobenzene

Pa., Philadelphia
Harmer Laboratories Co.

Dimethylaniline

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit
Detroit Organic Chemicals Co.
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Hemingway, Inc., Frank, 115 Broadway
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylglyoxime

N. Y., New York City
Holz, Herman A., 50 Church St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dimethylphenylenediamine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Dinitroamidophenol

Pa., Philadelphia
Harmer Laboratories Co.

Dinitrobenzene

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., Quincy
Monroe Color & Chemical Co.
Mass., Boston
Atlantic Dyestuffs Co., 88 Ames Bldg.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
*Hemingway, Inc., Frank, 115 Broadway
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Dinitrochlorbenzene

Conn., Stamford
American Synthetic Color Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
*Williamson & Co., 120 Broadway
Wright Chemical Corporation, 38 Park Row
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Tenn., Kingsport
Union Dye & Chemical Corporation

Dinitronaphthalene 1:8

Pa., Philadelphia
Harmer Laboratories Co.

Dinitronaphthalene

N. Y., Kingston
Nitrated Chemicals Co.
R. I., Providence
Agawan Chemical Works
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Dinitrophenol

Conn., Stamford
American Synthetic Color Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Mich., Midland
Dow ChemicalCo.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., 21 Burling Slip
*Williamson & Co., 120 Broadway
Wright Chemical Corp., 38 Park Row
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Tenn., Kingsport
Union Dye & Chemical Corporation

Dinitrotoluene

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co.
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington St.
Chemical Co. of America, 28 Platt St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Transatlantic Chemical Corporation, 192 Broadway
*Williamson & Co., 120 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Diphenylamine

Del., Wilmington
Du Pont Chemical Works.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Diphenylaniline

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
N. Y., Wappingers Falls
Standard Aniline Products, Inc.

Diphenyloxide

N. J., Bayonne
Standard Chemical Co., W. 5th St.

Dips, Mantle

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Direct Blue 2-B

Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.

Direct Blue 3-B

Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.

Direct Green J

Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.

Disinfectants *(see Calcium Hypochlorite, Chloride of Lime)*

Disinfectants, Coal Tar, all kinds

Mo., St. Louis
Cremoline Disinfecting Co., 17 S. Main St.
N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Disinfectants, Pine Oil

N. Y., New York City
Georgia Pine Turpentine Co., of New York, 160 Perry St.

Dopes, Aeroplane

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Dope, Split Leather

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Dopes, Leather

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Dopes, Leather Cloth

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Dopes, Patent Leather

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Dopes, Split Leather

Del, Wilmington
Hercules Powder Co., 10th and Market Sts.

Dryers

N. J., Newark
Jaenecke-Ault Co., Ave. B. & Wright St.

Dyestuff, Azo

Tenn., Kingsport
Union Dye & Chemical Corporation

Dyestuff, Direct

Tenn., Kingsport
Union Dye & Chemical Corporation

Dyestuff, Sulphur

Tenn., Kingsport
Union Dye & Chemical Corporation

Dyestuffs, Coal Tar (*see also Specific Headings, Colors*)

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
*McMains & Co., A. H., 24 California St.
Cal., Vernon
Internal Dye Products Co.
Cal., West Berkeley
California Aniline & Chemical Co.
Catalytic Chemical Co., 3d and Bancroft Sts.
Conn., Danielson
Connecticut Color Co.
Conn., Stamford
American Synthetic Color Co.
Stamford Extract Mfg. Co.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Fla., Jacksonville
Jacksonville Chemical Mfg. Co.
Ill., Chicago
Holland Aniline Co., 118 W. Kinzie St.
Sherwin-Williams Co., Pullman Station
Street & Co., R. R., 541 W. Washington St.
Ill., Quincy
Monroe Color & Chemical Co., N. Front St.
Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Mass., Boston
Alliance Chemical Co., 176 Federal St.
Atlantic Dyestuff Co., 88 Ames Bldg.
*Atteaux & Co., 176 Purchase St.
Avery Chemical Co., 88 Broad St.
Essex Aniline Works, Inc., 39 Oliver St.
Levinstein & Co., I., 74 India St.
Merrimac Chemical Co., 33 Broad St.
*Rosentwist & Gorner, 26 India Square
*Thayer & Co., E. M., 411 Atlantic Ave.
United States Color & Chemical Co., 93 Broad St.
United Indigo & Chemical Co., 176 Federal St.
Mass., Melrose
Melrose Chemical Co., Essex St.
Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.
Mass., South Seekonk
Arnold & Marshall Chemical Co.
Mich., Detroit
International Color & Chemical Co., 570 Franklin St.
Mich., Holland
Holland Aniline Co.
Mich., Lansing
Lansing Chemical Co.

Dyestuffs, Coal Tar—*cont.*

Mich., Midland
Dow Chemical Co.
Mich., Wyandotte
*Ford Co., J. B.
Mo., Independence
Independence Aniline & Refining Co.
Mo., St. Louis
Continental Chemical Co., 418 N. 3d St.
H. M. T. Chemical Co., Merchants-Laclede Bldg.
Nevins Chemical Works
N. J., Bound Brook
Calco Chemical Co.
Peerless Color Co.
N. J., Haledon
Mackey Wood Aniline Co., Inc.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. J., Matawan
Chrome Color Works
N. J., Metuchen
Acme Dyestuff & Chemical Co., Durham Ave.
N. J., Newark
Central Dyestuff & Chemical Co.
Haack & Co., 800 Broad St.
Keystone Dyestuff & Chemical Co., 671 Broad St.
N. J., Pennington
Westover Chemical Co.
N. J., Passaic
American Color Mfg. Co.
Wolf & Co., Jacques
N. J., Perth Amboy
National Synthetic Co.
N. Y., Brooklyn
Atlas Color Works, Inc., 417 Hamilton Ave.
Commonwealth Color & Chemical Co., Butler St.
Hoffman & Kropff Chemical Co., Meeker and Porter Sts.
Iridescent Dyestuff & Chemical Co., 247 Bush St.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., Buffalo
Contact Process Co.
N. Y., Cooks Falls
Beaverkill Dye Works
N. Y., Glens Falls
Imperial Color Works, Inc.
N. Y., Hastings
Zinsser & Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
*Ackerman Co., H. R., 65 Fulton St.
*Allied Chemical Exchange, Inc., 95-97 Liberty St.
Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
American Aniline Products, Inc., 80 Fifth Ave.
American Color Mfg. Co., 98 Park Place
American Dyewood Co., 80 Maiden Lane
American Synthetic Dyes Co., Inc., 61 Broad St.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Barrett Co., The, 17 Battery Place
Bayer Co., 117 Hudson St.
Beer, Sondheimer & Co., Inc., 61 Broadway
Berlin Aniline Works, 213 Water St.
*Binney & Smith Co., 81 Fulton St.
*Bischoff & Co., C., 451 Washington St.
Bloch Chemical Co., 67 Fifth Ave.
Brandes Chemical Co., The, 8th Ave.
Brassard & Co., Inc.
Bredt & Co., F., 240 Water St.
Butler Chemical Co., 25 Beaver St.
Butterworth-Judson Corp., 31 Broadway
Calco Chemical Co., Woolworth Bldg.
*Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St.
Camden Chemical Co., 42 Broadway
Cassella Color Co., 182 Front St.
Chemical Co. of America, Inc., 28 Platt St.
Chemical Mfg. Co., 48 Gold St.
*Century Colors Corp., 182 Front St.
Consolidated Color & Chemical Co., 122 Hudson St.
Cosmic Aniline Works, 8 W. Broadway
Delbrook Co., 135 William St.
Dicks, David & Co., Inc., 299 Broadway
*Doherr, Grimm & Co., 87 Gold St.
*Drug & Dyestuff Corp., 120 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Eagle Color & Chemical Co., 4 Cedar St.
Edgertyn Aniline Corp., 118 William St.
Federal Dyestuff & Chemical Co., 2 Rector St.
Franco American Chemical Works, 8 Gold St.
Franco Swiss Dyes, Inc., 81 Broadway
*Fuerst Bros. & Co., 2 Stone St.
Fuller & Co., Ralph L., 4 Rector St.
General Chemical Co., 25 Broad St.
Gold Leaf Natural Dyes Co., 150 Nassau St.

Dyestuffs, Coal Tar—*cont.*

N. Y., New York City—cont.
*Greeff & Co., R. W., Inc., 80 Maiden Lane
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Heller & Merz Co., 505 Hudson St.
*Hemingway, Inc. Frank L., 82 Beaver St.
Herman & Herman, Inc., 6 Church St.
Holliday-Kemp Co., Inc., 90 William St.
Holliday, Read & Sons (Ltd.), 160 Franklin St.
Independent Chemical Co., 72 Front St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Ketchum & Co., 65 Fulton St.
*Kley, Inc., 39 Courtlandt St.
Klipstein & Co., A., 644 Greenwich St.
*Klipstein & Co., E. C., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lascelles & Co., A. S., 10 Bridge St.
*Lengfelt & Co., F. H., 100 Maiden Lane
L. & R. Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Marks Dye Mfg. Co., Inc., Eli, 484 Broadway
Merck & Co., 45 Park Place
Metz & Co., H. A., 122 Hudson St.
Middlesex Aniline Co., Inc., 149 Broadway
Mont Color & Chemical Co., 90 Wall St.
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
New York Color & Chemical Co., 212 Pearl St.
*New York Quebracho Co., 80 Maiden Lane
Perolin Co. of America, Woolworth Bldg.
Reliance Aniline & Chemical Co., 100 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Saxe Chemical Co., 99 Nassau St.
*Schell Chemical Co., Inc., 56 Pine St.
Segal & Co., Inc., George H., 95 William St.
*Simeon & Elting, 93 Nassau St.
Southern Oil & Chemical Co., 15 Park Row
Stamford Mfg. Co., 82 Wall St.
Standard Aniline Co., 366 5th Ave.
Standard Color Works, 55 Liberty St.
Transatlantic Chemical Corp., 80 Wall St.
West Indies Chemical Works, 80 Maiden Lane
Wetterwald & Pfister Co., 34 W. 33rd St.
White Tar Co., 6 Cliff St.
Wright Chemical Corporation, 38 Park Row
Zobel Co., Inc., Ernst, 38 Water St.
N. Y., Schenectady
Organic Products Corporation
N. Y., Solvay
Solvay Process Co.
N. Y., Wappingers Falls
Standard Aniline Products Co., Inc.
N. Y., North Tonawanda
Synthetic Products Co., Inc., 447 Oliver St.
N. Y., Schenectady
Organic Products Corp.
Ohio, Amherst
Briggs Chemical Works Co.
Ohio, Cincinnati
Ault & Wiborg Co.
Eddy Chemical Co., 1014 Eliza St.
Gates Aniline Products Co.
Ohio, Cleveland
Grasselli Chemical Co.
Sherwin-Williams Co.
Ohio, Marietta
Obex Co., The
Ohio, Sandusky
Hord Color Products Co., 424 E. Market St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Fort Washington
Columbia Chemical Constructive Co.
Pa., Lockhaven
Stanley Aniline Chemical Works
Pa., Manayunk
Dye Products Co.
Pa., Marcus Hook
Benzol Products Co
Pa., Philadelphia
*Andreykovicz & Dunk, 116 N. Front St.
*Bick & Undy, 49 S. Front St.
Coyne, George S., 58 N. Front St.
Fleming Chemical Co., 1711 Crasford Road
*Fuller & Apeldorn, 23 S. 9th St.
Kali Mfg. Co., 1408 Front St.
*Pennsylvania Color Mfg. Co., 248 Chestnut St.
Philadelphia Aniline & Extract Co., Bourse Bldg.

Dyestuffs, Coal Tar—*cont.*

Pa., Reading
Althouse Chemical Co., 500 Pear St.
Gates Aniline Products Co.
Reading Chemical Mfg. Co.
Pa., Scranton
American Color Co.
R. I., Providence
Agawan Chemical Works, 10 Weybosset St.
*Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co., P. O. Box 490
*Lewis, John D.
Tenn., Kingsport
Federal Dyestuff & Chemical Co.
Wash., Seattle
West Coast Chemical Co., 6961 Woodlawn Ave.
Wis., Marinette
Ansul Chemical Co.
Wis., Milwaukee
Newport Chemical Works, Inc.

Dyestuffs, Fur

N. Y., New York City
*Kley, Inc., 39 Cortlandt St.

Dyestuffs, Vegetable

Cal., San Diego
Lower California Chemical Co.
Md., Baltimore
Young Co., The, J. S.
Mass., Boston
Neponset Color Co., Hyde Park
Zobel Co., Inc., Ernest, 46 Cornhill
Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine Sts.
N. Y., Long Island City
Oakes Mfg. Co.
United States Dye Extracts Co., Vernon Ave.
N. Y., New York City
Baltic Chemical Co., 183 Duane St.
*Binney & Smith Co., 81 Fulton St.
Jaeck Co., Louis, 255 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle & Co., 530 Canal St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
New York Quebracho Co., 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 82 Wall St.
United Dyewood Corp., 80 Maiden Lane
Ohio, Marietta
Obex Co., The
Okla., Wapanauka
Dale Mfg. Co., James C.
Pa., Hanover
Young & Co., J. S.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.
Va., Charlottesville
Young & Co., H. E.
Va., Lynchburg
Heald & Co., John H., Inc.

Dyewoods, Basic and Normal

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Dynamite (*see Explosives*)

Dynamite Gelatins

Del., Wilmington
Atlas Powder Co.
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.

Earth, Fullers

N. Y., New York City
*Cooper & Cooper, 309 Broadway
Pa., Warren
Floridin Co.
Texas, San Antonio
Medina Fullers Earth Co.

Earth, Green

N. J., Lincoln
Atlas Mineral Products Co.

Earth, Infusorial

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y. Celite Products Co., 11 Broadway
N. J., Lincoln
Atlas Mineral Products Co., The

Electrolyte

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Pa., Warren
Riverside Acid Works

Electroplating Materials

N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.

Emery Ore

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Emetin Hydrochloride

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Enamel, Gold

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Enamels

D. C., Washington
American Rutile Co., 622 F St. N.W.
Ill., Chicago
Nobian Paint & Varnish Co., 1856 Le Claire Ave.
Mich., Detroit
Acme White Lead & Color Works
Trus-Con Laboratories
N. J., Newark
Murphy Varnish Co., Chestnut and McWhorter Sts.
N. Y., Buffalo
Pratt & Lambert, Inc., 75-97 Tonawanda St.
N. Y., New York City
Berry Bros., 262 Pearl St. (Luxeberry)
Calman, Emil & Co., 100 William St.
General Bakelite Co., 2 Rector St.
Toch Bros., 320 Fifth Ave.
Ohio, Cleveland
Glidden Co., Madison Ave. and Berea Road
Sherwin-Williams Co.
Pa., Philadelphia
French & Co., Saml. H.

Enamels, Acid Proof

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Laboratory

N. Y., New York City
Toch Bros., 320 5th Ave.
Ohio, Warren
Goheen Mfg. Co., Main St.

Enamels, Machinery

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Enamels, Porcelain

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Porcelain, for Sheet Iron and Cast Iron

Md., Baltimore
Porcelain Enamel & Mfg. Co., O'Donnel and 8th Sts.

Enamels, Pyralin

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Enamels, Pyroxylin

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
Arlington Co., The, 725-727 Broadway

Enamels, Technical

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Enamels, for Apparatus, Black Baking and Air Drying

Ohio, Cleveland
Glidden Varnish Co., 11001 Madison Ave.

Enamels, for Copper, Gold and Silver

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, for Steel and Cast Iron

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enzymes

Mich., Detroit
Digestive Ferments Co.

Eosine

N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Cooper & Cooper, 309 Broadway
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Epsom Salts (*see Magnesium Sulphate*)

Erythrosin

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Ether

Del., Wilmington
Du Pont de Nemours & Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Bush & Co., W. J., 100 William St.
Cooper, Chas., & Co., 194 Worth St.
Merck & Co., 45 Park Place
Squibb, E. R., & Son, 78 Beekman St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Ether, Beta Naphthyl Ethyl

N. Y., New York City
Organic Products Corp., 369 State St.

Ether, Beta Naphthyl Methyl

N. Y., New York City
Organic Products Corp., 369 State St.

Ether, Petroleum

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mojonnier Bros., Co., 833 W. Jackson Blvd.

Ether, Nitrous-Con

Mo., St. Louis
Mallinckrodt Chemical Works., 3600 N. 2nd St.

Ether, Oenanthic

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Ether, Sulphuric (*see Ether*)

Ether, U.S.P.

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Ether, Washed

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Ethyl Acetate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
U. S. Industrial Chemical Co., 27 William St.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Ethylamine

N. Y., New York City
Chemical Co., of America, 28 Platt St.
Edgertyn Aniline Corporation, 118 William St.

Ethylaniline, Di.

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Ethyl Benzoate

N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.

Ethyl Bromide

Mich., Midland
Dow Chemical Co.
N. J.; Plainfield
Browne-Ferrer Inc.
N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Ethyl Butyrate

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
Van Schaack Bros. Chemical Works
N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.

Ethyl Chlorocarbonate

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Ethyl Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St
N. J., Carlstadt
Franco-American Chemical Works
N. J., Plainfield
Browne-Ferrer Inc.
N. Y., New York City
Clothel Co., The, 61 Broadway
Cooper & Co., Chas., 194 Worth St.
*Fries & Bro., 92 Reade St.
National Gum & Mica Co., 59th and 11th Ave.
*Schwenker, Inc., W. M., 340-344 E. 92d St.

Ethyl Ether (*see Ether*)

Ethyl Formate C. P.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Ethylmonochloracetate

Mich., Midland
Dow Chemical Co.

Ethyl Nitrite

N. J., Carlstadt
Franco-American Chemical Co.

Ethyl Oxalate C. P.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Ethyl Propionate

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Ethyl Valerate

Ill., Chicago
Van Schaack Bros. Chemical Works
Wis., Wauwatosa
Northwestern Chemical Co.

Ethyl Valerate, Refined

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Ethylene Bromide

Mich., Midland
Dow Chemical Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Eucalyptol

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Eugenol

N. Y., New York City
Bush & Co., W. J., 100 William St.
Dodge & Olcott Co., 87 Fulton St.

Euparol

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Explosives

Cal., San Francisco
Giant Powder Co., Consolidated, 1st National Bank Bldg.
Del., Wilmington
Atlas Powder Co.
DuPont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Mass., Boston
American Powder Mills, 1002 Bd. Trade Bldg.
N. Y., New York City
Aetna Explosives Co., 120 Broadway
*Fuerst Bros. & Co., 2 & 4 Stone St.
Ohio, Cincinnati
King Powder Co., First National Bank Bldg.
Ohio, Cleveland
Grasselli Powder Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Tenn., Nashville
United States Smokeless Powder Co.
W. Va., Charleston
United States Smokeless Powder Co.

Extracts, Archil

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Berlin Aniline Works, 213 Water St.
*Bischoff & Co., C., 451 Washington St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Blend

Pa., Hanover
Young & Co., J. S.

Extracts, Chestnut

Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.
N. C., Rosman
Rosman Tanning Extract Co.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Mt. Union
Mt Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Chestnut-Oak

Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.
N. C., Rosman
Rosman Tanning Extract Co.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Cutch

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
Berlin Aniline Works, 213 Water St.
*Fuller & Co., Ralph L., 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corpn, 61 Broadway
Stamford Extract Mfg. Co., 88 Wall St.
Pa., Hanover
Young & Co., J. S.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Lewis, John D., 1209 Turk Head Bldg.

Extracts, Deadwood

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.

Extracts, Divi Divi

Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.
N. C., Rosman
Rosman Tanning Extract Co.
Pa., Hanover
Young & Co., J. S.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Marion
Marion Extract Co.,
W. Va., Charleston
Tanners Extract Co.

Extracts, Dry Malt

Ohio, Cincinnati
American Diamalt Co., 419 Plum St.

Extracts, Dyewood

Mass., Boston
Rosentwist & Görner, 26 India Square
Mass., Worcester
Marble & Co., J. Russell
N. Y., Glens Falls
Imperial Dyewood Co., Inc.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Bredt & Co., &., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons (Ltd.), 169 Franklin St.
Industrial Chemical Co.
*Innis, Speiden & Co., 46 Cliff St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.

Extracts, Dyewood—*cont.*

N. Y., New York City—cont.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Coruu., 61 Broadway
Stamford Extract Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Philadelphia
*Andreykovics & Dunk, 58 N. Front St.
*Fortner Co., L. B., 36-38 Strawberry St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Fustic

England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
Bird, J. A. & W., Co.,
United Indigo & Chemical Co., 176 Federal St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine Sts.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons (Ltd.), 160 Franklin St.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., 128 Duane St.
Marden, Orth & Hastings Corpn., 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
Stamford Extract Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.
Pa., Philadelphia
Vila Color Co., H. S., 243 S. 2d St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Lewis, John D., 1209 Turks Head bldg.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Gambier

N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
*Fuller & Co., Ralph, 4 Rector St.
Stamford Extract Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.

Extracts, Hematin

N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
American Dyewood Co.
*Campbell, C. W., 11 Cliff St.
Industrial Chemical Co., Fifth Ave. Bldg.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corpn, 61 Broadway
United States Dye Extracts Co., 801 Vernon Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John

Extracts, Hemlock

Ill., Chicago
American Extract Co., 129 W. Kinzie St.
Mich., Petoskey
Michigan Tanning & Extract Co.
N. Y., New York City
Imperial Dyewood Co., 47 W. 34th St.
Industrial Chemical Co., Fifth Ave. Bldg.
Pa., Hanover
Young & Co., J. S.
Pa., Port Alleghany
American Extract Co.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Hypernic

N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Jamaica Dyewood & Chemical Co. 50 Church St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Indigo (*See Indigo*)

Extracts, Larch

N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
Industrial Chemical Co., Fifth Ave. Bldg.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Logwood

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mass., Worcester
*Brewer & Co.
N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
U. S. Dye Extracts Co., Inc., 801 Vernon Ave.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
*Campbell, C. W., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons, Ltd., 160 Franklin St.
*Fuller & Co., Ralph, 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Klipstein & Co., A., 644 Greenwich St.
Logwood Products Corp., 115 Broadway
Marden, Orth & Hastings Corpn., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Sloan & Russell, Inc., 132 Nassau St.
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Ohio, Cleveland
Grasselli Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Lewis, John D., 1209 Turks Head Bldg.
Va., Lynchburg
Heald & Co., Inc., John

Extracts, Mangrove

N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
*Innis, Speiden & Co., 46 Cliff St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Myrabolam

N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Oak

N. Y., Glens Falls
Imperial Color Co., Inc.
Imperial Dyewood Co., Inc.
Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., New York City
*Doherr, Grimm & Co., Inc., 87 Gold St.
Pa., Hanover
Young & Co., J. S.
Tenn., Knoxville
Southern Extract Co.
Va., Buena Vista
Buena Vista Extract Co.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Osage Orange

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Industrial Chemical Co., Fifth Ave. Bldg.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corpu., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Pharmaceutical
(*see Chemicals, Pharmaceutical*)

Extracts, Pine
W. Va., Charleston
Tanners Extract Co.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Quebracho
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
Argentine Quebracho Co., 17 Battery Place
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Corpn., 61 Broadway
*New York Quebracho Extract Co., Inc. 80 Maiden Lane
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Quercitron
England, Manchester
Robinson & Co., H. F., Newton Heath
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
*Fuller & Co., Ralph, 4 Rector St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., John N., Inc.

Extracts, Spruce
N. Y., Glens Falls
Imperial Color Works, Inc.
Imperal Dyewood Co., Inc.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Sumac
Mass., Boston
United Indigo & Chemical Co. 176 Federal St.
N. Y. Glens Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., Hastings-On-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Edgertyn Aniline Corp., 118 William St.
Bredt & Co., F., 240 Water St.
*Holliday, Read & Sons (Ltd.) 160 Franklin St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Stamford Extract Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Tannin
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. J., Newark
*American Oil & Supply Co., 52 Lafayette Ave.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co., Inc.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Industrial Chemical Co., Fifth Ave. Bldg.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Marden, Orth & Hastings Corpn., 61 Broadway
Stamford Mfg. Co., 82 Wall St.
Zobel Co., Inc., Ernest, 38 Water St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., Inc., J. H.

Extracts, Wool

N. Y., New York City
Marden, Orth, Hastings Corp'n, 61 Broadway

Fats, Animal

Ohio, Dayton
Economy Soap Products Co., N. Irwin St.

Feculose

Mass., Ayer
Feculose Co. of America

Feldspar

Ill., Chicago
*Rhodes, J. H., Co., 157 W. Austin Ave.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Clinchfield Products Co., 120 Broadway
Drakenfeld & Co., Inc., B. F., 50 Murray St.
Hammill & Gillespie, 240 Front St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Ferments

Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co., at Water St.
Stearns & Co., Frederick, Jefferson and Bellevue Ave.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.
Franco-American Ferment Co., 124 W. 31st St.
Pasteur Laboratories of America, 366 W. 11th St.
Pa., Hanover
Acme Extract & Chemical Works
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Ferric Acetate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ferric Cacodylate

N. Y., New York City
*Fougera & Co., E., 90 Beekman St.

Ferric Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Pl.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ferric Chromate

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chrystal, Chas. B., 11 Cliff St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ferric Hydroxide

N. Y., New York City
*Richmond Products Co., 32 Broadway

Ferric Nitrate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
General Chemical Co., 25 Broad St.

Ferric Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Ferric Oxide

Cal., San Francisco
Stauffer Chemical Co., 624 California Ave.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Greene St.

Ferric Oxide—*cont.*

N. Y., New York City
Baker & Co., H. J., 100 William St.
*Chrystals, Charles B., 11 Cliff St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Fuller & Co., Ralph, L., 4 Rector St.
Heller & Merz Co., 505 Hudson St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Osborn Co., C. J., 132 Nassau St.
*Tennant Sons & Co., C., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Ferric Oxide, Hydrated

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferric Phosphate, Soluble—U. S. P.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Ferric Sulphate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Ferric Sulphide

N. Y., New York City
General Chemical Co., 25 Broad St.

Ferric Vanadate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Ferro-Alloys (*see Alloys*)

Ferrous Ammonium Sulphate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Ferrous Chloride

Mo., St. Louis
Dow Chemical Co.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Ferrous Citrate

N. Y., New York City
*Pfizer & Co., Chas., 81 Maiden Lane

Ferrous Hydroxide

N. Y., New York City
*Richmond Products Co., 32 Broadway

Ferrous Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Ferrous Sulphate

Cal., San Francisco
Barbour Chemical Works
Stauffer Chemical Co.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
American Steel & Wire Co.
*Daigger & Co., A., 54 W. Kinzie St.
Rhodes Co., James H., 157 Austin Ave.
Ill., Peoria
Keystone Steel & Wire Co.
Mass., Boston
King & Co., Inc., E. & F., 367 Atlantic Ave.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. & B. & O. R. R.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Lambert Chemical Co., R. R. Exchange Bldg.
Malinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Cooper & Cooper, 309 Broadway
Drakenfeld & Co., Inc., B. F., 50 Murray St.
General Chemical Co., 25 Broad St.
*Beer, Sondheimer & Co., 61 Broadway
Kalbfleisch Corp., 31 Union Square, W.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
*Rockhill & Vietor, 22 Cliff St.

Ferrous Sulphate—*cont.*

N. Y., New York City—cont.
Squibb & Sons, E. R., 80 Beekman St.
Toch Bros., 320 5th Ave.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Ohio, Columbus
Harshaw, Fuller & Goodwin Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Powers-Weightman-Rosengarten Co.
Pa., Philadelphia
Taylor Co., Inc., N. & G., 300 Chestnut St.

Ferrous Sulphide

N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place

Fertilizer Materials

Ala., Birmingham
Tennessee Coal, Iron & R.R. Co.
Ala., Montgomery
Alabama Chemical Co.
Ala., Troy
Standard Chemical & Oil Co.
Cal., Berkeley
Pacific Guano & Fertilizer Co.
Cal., Los Angeles
Hauser Packing Co.
Riverside Portland Cement Co.
Cal., San Francisco
Hawaiian Fertilizer Co., 244 California St.
Mountain Copper Co., 32 Pine St.
Pacific Guano & Fertilizer Co., 343 Sansome St.
Union Sugar Co., 310 Sansome St.
Union Superphosphate Co., 343 Sansome St.
Western Meat Co., 110 Sutter St.
Conn., Middletown
Rogers & Hubbard Co., The
Del., Lewes
Lewes Fisheries Co.
Fla., Gainesville
Florida Fertilizer Co.
Fla., Jacksonville
Wilson & Toomer Co.
Fla., Pierce
Pierce Phosphate Co.
Fla., Tampa
Gulf Fertilizer Co.
Ga., Athens
Southern Refining Co.
Ga., Atlanta
Empire Cotton Oil Co.
Marietta Fertilizer Co.
Ga., Savannah
Comer, E. T., & Co.
Hull, James, & Co.
Southern Fertilizer & Chemical Co.
Ill., Chicago
Armour Fertilizer Works
Cudahy Packing Co.
*Daigger & Co., A., 54 W. Kinzie St.
Morris & Co., Union Stock Yards
Swift & Co., Union Stock Yards
Wilson & Co.
Ind., Evansville
Evansville Packing Co.
Ky., Louisville
Federal Chemical Co.
La., New Orleans
Planters Fertilizer & Chemical Co.
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Me., Portland
Portland Rendering Co.
Md., Baltimore
Baugh & Sons Co., 27 S. Calvert St.
Devison Chemical Co., Garrett Bldg.
Ober, G., & Sons Co., Fidelity Bldg.
Patapsco Guano Co., Vicker's Bldg.
Rasin-Monumental Co., National Marine Bank Bldg.
Mass., Boston
Bradley Fertilizer Works, 92 State St.
Consolidated Rendering Co.
Mich., Detroit
Michigan Carbon Works, Carbon and Formen Aves.
Miss., Meridian
Meridian Fertilizer Co.
Mo., St Louis
Mathiason, P. B., Mfg. Co., 5342 N. 2d St.
N. J., Newark
Listers Agricultural Chemical Works
N. J., Stewartsville
Edison Portland Cement Co.
N. Y., Buffalo
Buffalo Fertilizer Works, Marine National Bank Bldg.
Dold Packing Co., Jacob, 745 William St.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Beet Sugar Co., 32 Nassau St.
American Cotton Oil Co.
American Cyanamid Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
Bowker Fertilizer Co., 60 Trinity Pl.
Coe-Mortimer Co., 51 Chambers St.

Fertilizer Materials—*cont.*

N. Y., New York City—cont.
*Consumers Chemical Corp , 25 Broad St.
*Fuerst Bros. & Co., 2 & 4 Stone St.
International Agricultural Corp., 165 Broadway
*Mapes Formula & Peruvian Guano Co., 143 Liberty St.
Marden, Orth & Hastings Co., 61 Broadway
Nitrate Agencies Co., 85 Water St
Peace River Phosphate Mining Co., 2 Rector St.
Phosphate Mining Co., 55 John St.
Salmon & Co., H. H., 88 Wall St.
Southern Cotton Oil Co., 2 Broad St.
Union Seed & Fertilizer Co., 65 Broadway
*Wessel, Duval & Co.
N. C., Raleigh
Caraleigh Phosphate & Fert. Co.
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.
Hafleigh & Co., 2813 N. American Ave.
Martin Co., D. B., Inc., 30th and Market Sts.
Pennsylvania Salt Mfg. Co.
Shoemaker, M. L., & Co., Ltd., E. Venango, near Delaware Ave.
Thomas & Son Co., I. P., Drexel Bldg.
Pa., Pittsburgh
American Reduction Co., Brushton Ave. and P. R. R.
Pittsburgh Provision & Packing Co., Herrs Island
Pa., York
York Chemical Works
S. C., Charleston
Combahee Fertilizer Co.
Etiwan Fertilizer Co.
Planters' Fertilizer & Phosphate Co.
Tenn., Columbia
International Phosphate Co.
Tenn., Memphis
Tennessee Cotton Oil Co.
Tenn., Nashville
Read Phosphate Co.
Tennessee Chemical Co.
Tennessee Fertilizer Co.
Texas, Houston
Houston Packing Co.
Va., Norfolk
American Fertilizing Co.
Columbia Guano Co.
Farmers' Guano Co.
Royster, E. S., Guano Co.
Va., Richmond
Virginia-Carolina Chemical Co.
Wash., Anacortes
Robinson Fisheries Co.
Wash., Seattle
American Nitrogen Products Co.
Wash., Tacoma
Carstens Packing Co.

Fibre, Asbestos

N. J., Manville
Johns-Manville Co.

Fibre, Insulating

Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Pa., Bridgeport
Diamond State Fibre Co.

Fibre, Vulcanized

Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Pa., Bridgeport
Diamond State Fibre Co.

Filler, Asphalt

Mo., St. Louis
Certain-teed Products Co.
N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
Texas Co., 17 Battery Place

Fillers, Cement

Mo., St. Louis
Certain-teed Products Co.
N. Y., New York City
Toch Bros., 320 Fifth Ave.

Fillers, Paint

Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Mo., St. Louis
Certain-teed Products Co.

Fillers, Paper

Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Victor Chemical Works, Fisher Bldg.
Mich , Kalamazoo
Western Paper Maker's Chemical Co.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
International Pulp Co., 41 Park Row
St. Lawrence Talc Co., 7 E. 42d St.
N. Y., Syracuse
Semet-Solvay Co.

Filter-Cel

N. Y., New York City
Celite Products Co.

Finishes, Automobile

N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.

Finishes, Leather

N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Finishes, Textiles

N. Y., New York City
Jaeck Co., Louis, 257 Front St.

Flint

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Flint Shot

Ill., Chicago
United States Silica Co., 122 S. Michigan Ave.

Flour, Slate

N. J., Lincoln
Atlas Mineral Products Co.

Flour, Wood

N. Y., New York City
Industrial Chemical Co., Fifth Ave. Bldg.

Fluxes, Soldering

Mo., St. Louis
Dielectric Mfg. Co.

Fire Brick (*see Brick, Fire Clay*)

Fire Clay, Special Shapes

N. J., Perth Amboy
Didier-March Co.

Fire Extinguishing Compound

N. J., Camden
MacAndrews & Forbes Co., 3d St. and Jefferson Ave.

Flavine

N. Y., New York City
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.

Florine, Diamond

Pa., Reading
Althouse Chemical Co.

Fluorescein

Cal., San Francisco
California Analine & Chemical Co., 33 Clementina St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Fluorspar

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ky., Marion
Kentucky Fluor Spar Co.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Drakenfeld & Co., B. F., 50 Murray St.
*Hammill & Gillespie, 240 Front St.
Rhodes, J. H., & Co., 162 William St
*Tennant, C., Sons & Co., 100 William St.
*Waddell, R. J,. & Co., 52 Beekman St.
*Whittaker, W. H., & Co., 252 Front St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Formaldehyde

England, Darlington
Parkin, Ness & Co., Quebec St.
England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
Central Commercial Co.
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Baker & Bro., H. V., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place

Formaldehyde—*cont.*

N. Y., New York City—cont.
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Nitrate Agencies Co., 102 Pearl St.
Perth Amboy Chemical Works, 100 William St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Takamine Commercial Corporation, 120 Broadway.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Formaldehyde, Solidified

N. Y., New York City
Heyden Chemical Works, 135 William St.

Formate of Soda (*see Sodium Formate*)

Fuchsine

N. Y., New York City
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
L. & R. Organic Products Co., Inc., 27 Thames St.
N. Y., Schenectady
Organic Products Corporation

Fuchsine, Acid and Basic

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Fuchsine, Carbol

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Fuchsine Crystals

Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Fuchzine, Diamond

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Fuller's Earth (*See Earth, Fuller's*)

Fungicides (*see Insecticides*)

Furamines

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

Fustic (*See Extract, Fustic*)

Gall Nuts

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Garnet, Direct

Pa., Reading
Althouse Chemical Co., 500–540 Pear St.

Gelatine

Cal., San Francisco
California Glue Co., Fairfax Ave. and Rankin St.
Ill., Chicago
Armour & Co.
United Chemical & Organic Products Co.
Mass., Boston
American Glue Co., 121 Beverly St.
Essex Gelatine Co., 40 N. Market St.
Mich., Detroit
Digestive Ferments Co.
Mo., St. Louis
Readron Glue Mfg. Co.
N. Y., Le Roy
Genesee Pure Food Co.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
Coignet Chemical Products Co., Inc., 17 State St.
Edgertyn Aniline Corp., 118 William St.
*Hewitt & Co., C. B., 48 Beekman St.
Milligan & Higgins Glue Co., 222 Front St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Rockhill & Vietor, 22 Cliff St.
Southern Oil & Chemical Co., 15 Park Row
*Stanley, Jordan & Co., 116 Broad St.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Gelatine, Vegetable

Md., Baltimore
Bloede Co., Victor G., Caton Ave., Station "D"

Gelseminine Hydrobromide

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Geraniol

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Geranyl Acetate

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gilsonite

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Corp'n., 61 Broadway
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Gland Products

Ill., Chicago
Armour & Co.
Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co.
N. Y., New York City
Cudahy Packing Co.

Glass, Powdered

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

Glauber's Salt (*see Sodium Sulphate*)

Glucose

England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Iowa, Cedar Rapids
Douglas Co.
N. Y., New York City
American Maize Products Co., 135 William St.
Corn Products Refining Co., 17 Battery Place

Glue, Fish

Cal., San Francisco
Imperial Glue Co., Kohl Bldg.
Mass., Boston
Commonwealth Glue Co., 40 N. Market St.
Mass., Gloucester
Russia Cement Co.
N. Y., New York City
National Glue & Gelatine Works, 2 West End Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
Wash., Anacortes
Robinson Fisheries Co.

Glue, Flexible

N. Y., New York City
National Glue & Gelatine Works, 2 West End Ave.
National Gum & Mica Co., 59th St. and 11th Ave.

Glue, Leather Manufacturer's

N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.

Glue, Liquid

Mass., Boston
Commonwealth Glue Co., 40 N. Market St.
Mass., Gloucester
Russia Cement Co.
Mo., St. Louis
American Glue Co., 410 Elm St.
N. Y., New York City
Coignet Chemical Products Co., Inc., 17 State St.
Major Mfg. Co., 461 Pearl St.
National Gum & Mica Co., 59th St. and 11th Ave.
Ohio, Cleveland
Grasselli Chemical Co.

Glycerine

Cal., Los Angeles
Los Angeles Soap Co., 633 E. 1st St.
Cal., San Francisco
Moore & Co., George A., 212 California St.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Ill., Aurora
Jobbins, Inc., W. F., 923 N. Lake St.
Ill., Chicago
Armour Soap Works
Cudahy Packing Co., 111 W. Monroe St.
*Daigger & Co., A., 54 W. Kinzie St.
Fairbanks Co., N. K.
Kirk & Co., J. S., 106 E. Austin Ave.
Swift & Co., Union Stock Yards
Wilson & Co.

Glycerine—*cont.*

Kan., Kansas City
Peet Bros. Mfg. Co.
Ky., Louisville
Louisville Soap Co., 2440 Floyd St.
Md., Baltimore
McCormick & Co., McCormick Bldg.
Virginia Red Oil Products Corporation.
Mass., Cambridge
Lever Bros.
Mass., Lynn
Marsh Co., George E.
Mass., Worcester
Brewer & Co.
N. J., Jersey City
Colgate & Co.
N. Y., Buffalo
Kellogg Products Co.
Larkin Co.
Lautz Bros. & Co., 44 Hanover St.
N. Y., Kingston
Nitro Powder Co.
N. Y., New York City
*American Trading Co., 25 Broad St.
Babbitt, B. T., 11 Broadway
*Freeman & Co., R. B., 92 Wall St.
*Fuerst Bros. & Co., 2 Stone St.
*Fuller & Co., Ralph L., 4 Rector St.
*Garrigues Co., Charles F., 80 Maiden Lane
Gaston, Williams & Wigmore, Inc., 35–39 Broadway
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Corpn., Inc., 61 Broadway
*Marx & Rawolle, 100 William St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Southern Cotton Oil Co., 120 Broadway
National Oil Products Co., 220 Broadway
*Takamine Commerical Corporation, 120 Broadway.
N. Y., Syracuse
Will & Baumer Co.
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cincinnati
Emery Candle Co., 44 Walnut St.
Globe Soap Co., United Bank Bldg.
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Moore Oil Co., York and McLean Ave.
Proctor & Gamble Co., Gwynn Bldg.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Ohio, Dayton
Economy Soap Product Co., N. Irwin St.
Ohio, St. Bernard
Werk Co., The M.
Pa., Philadelphia
Fels & Co., 73rd St. and Woodland Ave.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Glycerine, High Gravity

Ohio, Cincinnati
Proctor & Gamble Co., Gwynne Bldg.

Glycerophosphates

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Merck & Co., 45 Park Place

Gold

Ill., Chicago
Goldsmith Bros., Smelting & Refining Co.
Mass., Boston
U. S. Smelting, Refining & Mining Co., 55 Congress St.
N. J., Irvington
Irvington Smelting & Refining Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Platt Co., Charles S.

Gold Chloride

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Glen Falls
Ames Chemical Works, 21 Sherman Ave.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Merck & Co., 45 Park Place
Powers-Weightman-Rosengarten Co.
Pa., Philadelphia
Phillips & Jacobs, 622 Race St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gold, Liquid

N. J., Newark
Hanovia Chemical & Mfg. Co., Chestnut St. and N. J. Railroad Ave.

Gold Oxide

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Glycerine Jelly

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Glycerophosphate of Iron

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and Lafayette Ave.

Graphite

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Obermayer Co., S., 2563 W. 18th St.
Mich., Saginaw
United States Graphite Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
International Acheson Graphite Co.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
*Chrystal, Charles B., 11 Cliff St.
Crooks & Co., Robert, 135 Front St.
*Dunn & Kruse, 53 Park Row
*Fuerst Bros., & Co., 2 Stone St.
*Patterson, Boardman & Knapp, 10 Bridge St.
*Waddell & Co., R. J., 56 Beekman St.
*Whittaker Co., W. H., 250 Front St.
Ohio, Columbus
Aetna Graphite Co.

Gray Brown

Mich., Holland
Holland Aniline Co.

Grease, Animal

Ohio, Dayton
Economy Soap Products Co., N. Irwin St.

Grease, for Technical Purposes

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Cudahy Packing Co., 111 W. Monroe St.
Dearborn Chemical Co., McCormick Bldg.
Sinclair Refining Co., Conway Bldg.
Stuart & Co., Inc., D. A., 29 S. La Salle St.
Wilson & Co.
Md., Baltimore
Robinson & Son Co., Wm. C., 32 South St.
Mass., Atlantic
*Bosson & Lane
Mich., Detroit
White Star Refining Co., 614-648 Avery Ave.
Mich., Saginaw
U. S. Graphite Co.
Minn., Minneapolis
Van Tilburg Oil Co., The
Neb., Omaha
Cudahy Packing Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Borne-Scrymser Co., 80 South St.
N. Y., New York City
Kelly Graphite Mills, 534 W. 22d St.
National Gum & Mica Co., 59th St. and 11th Ave.
New York & New Jersey Lubricant Co., 165 Broadway
Sonneborn Sons, Inc., L., 262 Pearl St.
Standard Oil Co. of New York, 26 Broadway
Texas Co., 17 Battery Place
Wolverine Lubricants Co. of New York, 80 Broad St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Moore Oil Co., York and McLean Aves.
Ohio, Toledo
Sun Co.
Pa., Philadelphia
Crew Levick Co.
Keystone Lubricating Co.
Philadelphia Grease Mfg. Co., 848-850 S. Swanson St.
R. I., Providence
Harris Oil Co., A. W., 326 S. Water St.

Green, Benzo

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Green, Bitter Almond

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Green, Brilliant

N. Y., New York City
Cosmic Aniline Works, Inc., 8 W. Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
W. Va., Huntington
Lamie Chemical Co.

Green, Chrome, C. P.

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
N. Y., Glens Falls
Imperial Color Works, Inc.

Green, Direct

N. J., Bound Brook
Peerless Color Co., Inc.
N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Gambine

Ohio., Sandusky
Hord Color Products Co., S. Columbus Ave.

Green, Malachite

N. Y., New York City
Cosmic Aniline Works, Inc., 8 W. Broadway
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
L. & R. Organic Products Co., Inc., 27 Thames St.
Pa., Philadelphia
Harmer Laboratories Co.
W. Va., Huntington
Lamie Chemical Co.

Green, Methylene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Green, Methyl-Stain

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Green, Naphthol

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Green, Napthol B.

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Greens, Acid

N. Y., New York City
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
W. Va., Huntington
Lamie Chemical Co.

Green Scales

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Greens, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Victoria, Conc.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Wool S.

N. Y., New York City
Organic Products Corp., 469 State St.

Green, Wool S. Swiss

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.

Guaiacol

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Wis., Milwaukee
Newport Chemical Works

Guaiacol Carbonate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Gums (all kinds)

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Ayer
Feculose Co. of America
Mo., St. Louis
Reardon Glue Mfg. Co.

Gums (all kinds)—*cont.*

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Campbell & Co., John C.
*Cooper & Cooper, 309 Broadway
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
*Salomon & Bro., L. A., 216 Pearl St.
Southern Oil & Chemical Co., 15 Park Row

Gum, Arabic

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Passaic
*Wolf & Co., Jacques, 342 Lexington Ave.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Duche & Sons, T. M., 376 Greenwich St.
Edgertyn Aniline Corp., 118 William St.
*Fuller & Co., Ralph, 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
*Salomon & Bro., L. A., 216 Pearl St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Gum, Benzoin

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gum, Brazilian

N. Y., New York City
National Gum & Mica .Co., 59th St and 11th Ave.

Gum, Brightwood

N. Y., New York City
Na ional Gum & Mica Co., 59th St. and 11th Ave.

Gum, British (*see also Dextrine*)

Md., Baltimore
Bloede Co., Victor G., Station "D," Caton Ave.
N. Y., New York City
Corn Products Refining Co., 17 Battery Place
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Camphor

Cal., San Francisco
*Dill-Crossett, Inc., Postal Telegraph Bldg.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Baker & Bro., H. J., 81 Fulton St.
Suzuki & Co., 220 Broadway
*Takamine Commerical Corporation, 120 Broadway
Mass., Boston
American Camphor Refining Co., 14 Fulton St.
N. Y., New York City
*Barrett Co., 17 Battery Place
*Campbell, C. W., 11 Cliff St.
*Fuller & Co., Ralph L., 4 Rector St.
*Merck & Co., 45 Park Place
*Mitsui & Co., 25 Madison Ave.
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Pfizer & Co., Charles, 81 Maiden Lane
*Weymouth, Ralph W., 111 Broadway
Ohio, Cleveland
Smith Co., Werner G., Hird and Detroit Sts.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gum, Congo

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Copal

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Standard Asphalt & Rubber Co., 137 S. La Salle St.
N. Y., Brooklyn
Zobel & Co., E.
N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
*Scheel, William H., 159 Maiden Lane
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Gum, Damar

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Katzenbach & Bullock Co., Inc., William and John Sts.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Gum, Gambier

N. Y., New York City
*Kuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich. St.

Gum, Industrial

N. Y., New York City
Herrick-Voigt Chemical Corporation, 1 Liberty St.

Gum, Karaya

N. J., Passaic
*Wolf & Co., Jacques, 342 Lexington Ave.

Gum, Kauri

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Gum, Manila Copal

Pa., Philadelphia
Meyer & Sons., J., 480 Bourse Bldg.

Gum, Mastic

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gum, Myrrh

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gum, Pontianak

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Meyer & Sons, J., 480–482 Bourse Bldg.

Gum, Red

N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.

Gum, Rosin

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ohio, Cincinnati
*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.

Gum, Sandarac

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gum, Senegal

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Shellac

Ill., Chicago
Barrett & Co., M. L., 333 W. Lake St.
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit
Berry Bros., Leib and Wright Sts.
N. Y., New York City
*Marx & Rawolle, 100 William St.

Gum, Textile Printing

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Gum, Textile, Stiffening

N. Y., New York City
Corn Products Refining Co., 17 Battery Place
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Tragacanth

Ill., Chicago
Barrett & Co., M. L., 219 Lake St.
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. J., Passaic
*Wolf & Co., Jacques, 342 Lexington Ave.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Cooper & Co., Chas., 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Pa., Hanover
Acme Extract & Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Gum, Varnish (*see Gum, Copal*)

Gum, Victor

Md., Baltimore
Bloede Co., Victor G., Caton Ave.

Gum, Wood Veneer

Md., Baltimore
Bloede Co., Victor G., Caton Ave.

Gum, Zambesi

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Gum, Zanzibar

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Scheel, Wm. H., 159 Maiden Lane

Gums, Ester

Pa., Philadelphia
Meyer & Sons, J.

Gums, Guaiac

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Gymene

N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.

Gypsum (*see Calcium Sulphate*)

Haemateine

N. Y., New York City
*Bischoff & Co., Inc., C., 451 Washington St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Haematoxyline Crystals

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Haematoxyline, Dark

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Haematoxyline, Delafield

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Hardening Compound, Surface

Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Heliotropin

N. Y., New York City
Bush & Co., W. J., 100 William St.
Florasynth Laboratories, Inc., 231 Pearl St.
National Gum & Mica Co., 59th St. and 11th Ave.

Helianthine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Helio, Direct

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Hematin Crystals

England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., Glens Falls
Imperial Dyewood Co., Inc.
N. Y., Long Island City
United States Dye Extracts Co., Inc.

Hematin Crystals—*cont.*

N. Y., New York City
American Dyewood Co., 80 Maiden Lane
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Nitrate Agencies Co., 102 Pearl St.
*Sloan & Russell, Inc., 132 Nassau St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
R. I., Providence
Lewis, John D., 1209 Turks Head Bldg.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Hematin Extract (*see Extract, Hematin*)

Hematin Liquid (*see Extract, Hematin*)

Hematin, Paste (*see also Extract, Hematine*)

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
R. I., Providence
Lewis, John D., 1209 Turks Head Bldg.

Hematin, Solid

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Hexachlorethane

Mich., Midland
Dow Chemical Co.

Hexamethylenamine

N. Y., New York City
Edgertyn Aniline Corporation, 118 William St.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Hexamethylene

N. Y., New York City
Miller, J. A., 233 Broadway

Hexamethylenetetramine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 Maiden Lane
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Hexamethyl violet

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Hydrastine

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Hydrazobenzene

R. I., Providence
Agawam Chemical Works, 10 Waybosset St.

Hydrochinone (*see Hydroquinone*)

Hydrogen

Ill, Chicago
*Daigger & Co., A., 54 W. Kinzie St.
National Ox-Hydric Co.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
International Oxygen Co., 115 Broadway
Linde Air Products Co., Forty-Second St. Bldg.
*Palo Co., 90 Maiden Lane
Standard Oxygen Co., 216 E. 42d St.
Ohio, Cleveland
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Ohio, Wickliffe
Clarke Chemical Co., St. Clair St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Hydrogen Dioxide (*see Hydrogen Peroxide*)

Hydrogen Peroxide

Colo., Denver
Chemical Products Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Detroit
Parke, Davis & Co.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Long Island City
American Druggists Syndicate
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Cooper & Co., Charles, 194 Worth St.
McKesson & Robbins, 91 Fulton St.
Merck & Co., 45 Park Place
Oakland Chemical Co., 10 Astor Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Hydrone

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Hydroquinone

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
21 Burling Slip
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Bound Brook
American Chemical Products Co.
N. J., Jersey City
Seydel Mfg. Co.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Eissing Chemical Co., 225 Fifth Ave.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Wood, Inc., J. Early, 21 Platt St.

Hydrosulphite

N. Y., New York City
Kuttroff, Pickhardt & Co., Inc., 126 Duane St.

Hydrosulphite Powder

N. Y., New York City
Klipstein & Sons Co., E. C., 644 Greenwich St.

Hypernic Crystals

N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.

Hypernic, Extract (*see Extract Hypernic*)

Hypochlorite of Lime (*see Calcium Hypochlorite, Bleach and Chlorids of Lime*)

Hydrosulphite

N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Ichthynat

N. Y., New York City
Heyden Chemical Works, 135 William St.

Ichthyol

N. Y., New York City
Merck & Co., 45 Park Place
National Gum & Mica Co., 59th St. and 11th Ave.
Takamine Laboratory, Inc.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Indigo

Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Mass., Boston
*Cronkhite & Co., L. W.
Levinstein, I. & Co.,
*United Indigo & Chemical Co., 176 Federal St.
Mich., Midland
Dow Chemical Co.

Indigo—*cont.*

N. Y., New York City
*Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Berlin Aniline Works, 213 Water St.
*Bischoff & Co., Inc., C., 451 Washington St.
*Freeman & Co., R. B., 96 Wall St.
*Huisking, Inc., Chas. L., 5 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Riker, J. L., & D. S., 80 Maiden Lane
Southern Oil & Chemical Co., 15 Park Row
R. I., Providence
*Arnold, Hoffman & Co., 55 Canal St.

Indigo, Synthetic

Mich., Midland
Dow Chemical Co.

Indigo, Synthetic, 20 % Paste

Mich., Midland
Dow Chemical Co.

Indigo, Synthetic, Powder

Mich., Midland
Dow Chemical Co.

Indigotine

Mass., Boston
Avery Chemical Co., 88 Broad St.
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Berlin Aniline Works, 213 Water St.
*Klipstein & Co., A., 644 Greenwich St.

Indulin

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
Mich., Midland
Dow Chemical Co.
N. Y., Brooklyn
Zobel Color Works, Inc., 95–127 Ninth St.
R. I., Providence
Industrial Chemical Co.

Infusorial Earth (*see Earth, Infusorial*)

Inks

Cal., Los Angeles
Pacific Chemical Co., 1421 N. Main St.
D. C., Washington
Lamb & Tilden, 725 13th St., N. W.
Ill., Chicago
Sanford Mfg. Co., Congress and Peoria Sts.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Ohio, Cincinnati
Ault & Wiborg

Inks, Air Brush

N. Y., New York City
*Bachmeier & Co., Inc., 438 W. 37th St.

Inks, Lithographic

N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.
N. J., Newark
Jaenecke-Ault Co., Ave. B and Wright St.

Inks, Printing

Ga., Savannah
Southern Oil & Chemical Co.
N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.
N. J., Newark
Jaenecke-Ault Co., Ave B. and Wright St.
N. Y., New York City
Middlesex Aniline Co., Inc., 149 Broadway

Intermediates (*see also specific headings*)

Cal., West Berkeley
California Aniline & Chemical Co.
Cata ytic Chemical Co., 3d and Bancroft Sts.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Ill., Chicago
Western Aniline Products Co., 1160 Old Colony Bldg.
Ill., Quincy
Monroe Color & Chemical Co.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Merrimac Chemical Co., 41 Central St.
Mich., Holland
Holland Aniline Co.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Elizabeth
Bayway Chemical Co., Bayway
Midvale Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.

Intermediates—*cont.*

N. J., Matawan
Synthetic Color Co.
N. J., Metuchen
Acme Dye & Chemical Co., Durham Ave.
N. J., Newark
Central Dyestuff & Chemical Co.
N. Y., New York City
*Allied Chemical Exchange, Inc., 95–97 Liberty St.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Amalgamated Dyestuff & Chemical Work, Inc., 75 Hudson St.
American Aniline Products, Inc., 15 E. 12th St.
American Color Mfg. Co., 98 Park Place
American Synthetic Dyes, Inc., 61 Broad St.
Barrett Co., The, 17 Battery Place
Benzol Products Co., The, 25 Broad St.
Bound Brook Chemical Corp., 82 Beaver St.
Butterworth-Judson Corporation
Calco Chemical Co., 44th floor, Woolworth Bldg.
Chemical Co. of America, Inc., 28 Platt St.
Dye Products & Chemical Co., Inc., 200 Fifth Ave.
General Chemical Co., 25 Broad St.
*Hemingway, Inc., Frank L., 82 Beaver St.
Hooker Electrochemical Co., 40 Wall St.
*Klipstein & Sons Co., E. C., 644 Greenwich St.
L & R Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Co., 61 Broadway
May & Co., Inc., Frank L., 99 John St.
Merck & Co., 45 Park Place
Metz & Co., H. A., 122 Hudson St.
Middlesex Aniline & Chemical Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
New York Color & Chemical Co., Inc., 212 Pearl St.
*Rector Chemical Co., Inc., 2 Rector St.
*Segal & Co., Inc., George H., 95 William St.
Semet-Solvay Co. of New York, 42d St. Bldg.
Wright Chemical Corporation, 38 Park Row
N. Y., Schenectady
Organic Products Corp.
Ohio, Cincinnati
Ault & Wiborg
Ohio, Cleveland
Sherwin-Williams Co.
Ohio, Marietta
Obex Co., The
Ohio, Sandusky
Hord Color Products Co., 424 E. Market St.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
R. I., Providence
Agawan Chemical Works, 531 Grosvenor Bldg.
Industrial Chemical Co., P. O. Box 490
Wash., Seattle
West Coast Chemical Co., 6961 Woodlawn Ave.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Iodide, Thymol

Mo., St. Louis
Mallinckrodt Chemical Co., 3600 N. 2nd St.

Iodine

Cal., San Francisco
Rogers Chemical Co., R. R., 527–536 Commercial St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, 205–211 Third Ave.
McKesson & Robbins, 91 Fulton St.
Merck & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
Suziki & Co., S., 13 Park Row
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Southern Oil & Chemical Co., 15 Park Row

Iodine (Resublimed)

N. Y., New York City
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Iodine Monochloride

Pa., Philadelphia
Harmer Laboratories Co.

Iodine Trichloride

Pa., Philadelphia
Harmer Laboratories Co.

Iodoform

Colo., Pueblo
Norcross Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Huisking, Inc., Chas. L., 5 Platt St.
Merck & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Southern Oil & Chemical Co., 15 Park Row
Squibb, R. E., & Sons, 80 Beekman St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Iridium Chloride

N. J., Newark
American Platinum Works, 225-231 New Jersey R. R. Ave.

Iron Scale

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Iron, silvery

N. Y., New York City
*Canada Carbide Sales Co., Inc., 30 Church St.
*Fairbanks, Morse & Co., 30 Church St.

Jenner Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Kaolin

Cal., Los Angeles
Pacific Mineral Products Co.
Del., Newark
Peach Kaolin Co.
Ga., Macon
Georgia Kaolin Co.
Ga., Savannah
Savannah Kaolin Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Trenton
Golding Sons & Co., S.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
N. Y., Troy
Ostrander Fire Brick Co.
N. C., Dillsboro
Harris Clay Co.
Pa., Philadelphia
Paxson Co., J. W., 1022 N. Delaware Ave.
Philadelphia Clay Co., 1316 Commonwealth Ave.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ketone, Michler's

N. Y., New York City
Chemical Co. of America, 176 Front St.

Ketones

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
*Hemingway, Inc., Frank, 115 Broadway
Industrial Chemical Co., Fifth Ave. Bldg.
U. S. Industrial Chemical Co., 27 William St.
Pa., East Smethport
Norwich Chemical Co.

Khaki Olive, Direct

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Kieselguhr

N. J., Lincoln
Atlas Mineral Products Co.

Koreon

N. Y., New York City
Mutual Chemical Co. of America, 55 John St.

Kryolith

N. J., Jersey City
Import Chemical Co., 162 First St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lacmoid

Pa., Philadelphia
Harmer Laboratories Co.

Lacmoid, Alcohol Sol.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Lacmoid, Water Sol.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Lacquers

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
Mass., Boston
Chemical Products Co., 93 Broad St.
N. J., Carlstadt
Franco-American Chemical Co.
N. Y., New York City
Celluloid Zapon Co., 200 Fifth Ave.
Cooper & Co., Charles, 194 Worth St.
General Bakelite Co., 2 Rector St.
Kalbfleisch Corp., 31 Union Square, W.
National Gum & Mica Co., 59th St. and 11th Ave.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Lacquers, Celluloid

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Lacquers, Cellulose Acetate

N. Y., Rosebank
Austen, Perry, Mfg. Co.

Lacquers, Dip

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Lacquers, Gum

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Lacquers, Metal

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
N. J., Wallington
Anderson Chemical Co.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Lacquers, Nitrocellulose

N. Y., Rosebank
Austen, Perry, Mfg. Co.

Lacquers, Pyralin

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.

Lacquers, Spray

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Lacquers, Wood

Del., Wilmington
Du Pont Chemical Works

Lakes *(see also Dyestuffs)*

N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.
N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Heller & Merz Co., 503 Hudson St.
Marden, Orth & Hastings Corpn., Inc., 61 Broadway.
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
*Waldo, E. M. & F., 11 Broadway
Zobel Color Works, Inc.
Ohio, Cincinnati
Ault & Wiborg Co.

Lakes, Blue

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Lakes, Green

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Lithol Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Madder

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 1 Cedar St.

Lakes, Process Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Purple

N. Y., New York City
Hellenic Chemical & Color Co., Inc. 427 W. 13th St.

Lakes, Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc. 427 W. 13th St.

Lakes, Scarlet

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Lakes, Violet

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Lakes, Yellow

N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lamp Black

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., 5th Ave. Bldg.
National Gum & Mica Co., 59th St. and 11th Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
N. Y., Troy
Eddy's Son, Titus
Oregon, Portland
Portland Gas & Coke Co.

Lanolin

Cal., Los Angeles
Sirch Electrical & Testing Laboratories
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Hoffmann-LaRoche Chemical Works, 440 Washington St.
Marden, Orth & Hastings Co., Inc., 61 Broadway

Larch, Extract (*see Extract, Larch*)

Lead (electrolytic)

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining and Mining Co., 120 Broadway
U. S. Smelting Co., Inc., 120 Broadway

Lead (Pig)

Cal., San Francisco
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Conn., New Haven
United Smelting & Aluminum Co., Inc.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Raymond Lead Co., 940 W. Huron St.
Ind., East Chicago
U. S. Reduction Co.
Mass., Boston
Chadwick-Boston Lead Co., 162 Congress St.
Minn., St. Paul
Northwestern Shot & Lead Works
Mo., St. Louis
Hoyt Metal Co.
St. Louis Smelting & Refining Co., International Life Bldg.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Columbia Smelting & Refining Works, 365 West St.
Eagle Smelting & Refining Works, Woolworth Bldg.
Hungerford Brass & Copper Co., U. T., 80 LaFayette St.
Nassau Smelting & Refining Works, Ltd., 605 W. 29th St.
National Lead Co., 111 Broadway
National Metals Co., Woolworth Bldg.
United Lead Co., 111 Broadway
United States Smelting, Refining & Mining Co., Inc., 120 Broadway

Lead (Sheet)

Ill., Chicago
Raymond Lead Co., 735 S. Washtenaw Ave.
Mass., Boston
United Lined Tube & Valve Co.
N. Y., New York City
National Lead Co.
United Lead Co., 111 Broadway

Lead Acetate

Cal., San Francisco
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Stockport
Cornbrook Chemical Co., Ltd.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ind., Greencastle
Greencastle Zinc & Lead Mining Co.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.

Lead Acetate—*cont.*

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Jersey City
Interstate Chemical Co., 12 Bay View Ave.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
*Bredt & Co., F., 240 Water St.
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Lead Co., 111 Broadway
Roessler & Hasslacher Co., 100 William St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Lenning & Co., Inc., Chas.
R. I., Providence
*Lewis, John D.
Wis., Madison
Cleveland Mining Co.

Lead Antimonial

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Steel Co., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
Eagle Smelting & Refining Works, Woolworth Bldg.
Nassau Smelting & Refining Works, 607 W. 29th St.
United States Smelting, Refining & Mining Co., Inc., 120 Broadway
*Seligmann, A., 165 Broadway
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.

Lead Arsenate

Colo., Grand Junction
Latimer Chemical Co.
Ill., Chicago
*Daigger & Co., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Mass., Leominster
Danfourth Chemical Co., Willard St.
Mich., Detroit
Detroit White Lead Works
Mich., Grand Rapids
Imperial Chemical Co.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. J., Camden
Mechling Bros. Mfg. Co.
N. J., Jersey City
Interstate Chemical Co., 667 Garfield Ave.
N. Y., New York City
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Hemingway, Inc., Frank, 115 Broadway
Pratt Co., B. G., 50 Church St.
*Nitrate Agencies Co., 102 Pearl St.
Vreeland Chemical Co., 50 Church St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Milwaukee
Corona Chemical Co.

Lead, Black (*see Graphite*)

Lead Borate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Lead, Bordo

N. J., Jersey City
Interstate Chemical Co., 12-20 Bayview Ave.

Lead Carbonate, Basic

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
National Lead Co., 111 Broadway

Lead, Chloride

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Lead Chromate (*see Chrome Yellow*)

Lead Hyposulphite

N. Y., New York City
*Doggett, Stanley, John and Cliff Sts.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lead Fluosilicate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Lead Linoleate

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons., J., 480–482 Bourse Bldg.

Lead Nitrate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper, Chas., Co., 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Lead Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Oxide (*see also Litharge*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Eagle Pilcher Lead Co.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Coulston & Co., J. W., 80 Maiden Lane
Eagle Picher Lead Co., 100 William St.
Edgertyn Aniline Corp., 118 William St.
Independent Chemical Co., 72 Front St.
National Lead Co., 111 Broadway
Southern Oil & Chemical Co., 15 Park Row
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., The, Electric Bldg.
Pa., Pittsburgh
National Oil & Lead Co. of Pa., Commonwealth Bldg.

Lead Palmitate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Peroxide

N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.
Cooper & Co., Charles, 194 Worth St.
*Sloan & Russell, Inc., 132 Nassau St.

Lead, Red

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Eagle-Pilcher Lead Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Lead Co., 111 Broadway

Lead Resinate

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Lead Stearate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Sulphate

Ill., Chicago
Eagle Picher Lead Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
National Lead Co., 111 Broadway
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Lead, White (*see Lead Carbonate, Basic*)

Lead, White Sugar of (*see Lead Acetate*)

Leather Dressings

N. Y., New York City
Apex Chemical Co., 63 Park Row

Leather Renovators

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions

Ill., Chicago
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Co.
N. J., Wallington
Anderson Chemical Co.

Leather Solutions, Artificial

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions, Patent

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Solutions, Split

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Leather Substitute Solutions

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Lecithin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Leishman Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Leukonin

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Levuline

N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Lime Acetate (*see Calcium Acetate*)

Lime Nitrate (*see Calcium Nitrate*)

Lime Sulphur

Mich., Midland
Dow Chemical Co.

Lime Sulphur Solution

Colo., Grand Junction
Latimer Chemical Co.
Mich., Midland
Dow Chemical Co.
N. J., Camden
Mechling Bros. Mfg. Co.

Limestone (*see also Calcium Carbonate, Native*)

Cal., San Francisco
Pacific Portland Cement Co.
Md., Hagerstown
Security Cement & Lime Co.
Mo., St. Louis
Columbia Quarry Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Youngstown
Bessemer Limestone Co.
Pa., Philadelphia
Cambria Steel & Ordnance Co.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Tyrone
American Lime & Stone Co.

Limestone, Ground

Cal., Highland
Thompson, R. S., & Son
N. Y., Syracuse
Solvay Process Co.

Linalyl Acetate

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Liquid Air

Canada, Quebec, Maisonneuve
L'Air Liquid Societé

Liquids, Bacteriological Cultures

N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.

Liquids, Bronzing

Del., Wilmington
Du Pont Chemical Works
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Liquor, Cresolis

Cal., Los Angeles
Bobrick Chemical Co., 111-117 S. Garey St.

Litharge (*see also Lead Oxide*)

Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Mass., Boston
Chadwick-Boston Lead Co., 162 Congress St.
N. Y., Long Island City
Matheson Lead Co.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Devoe, F. W. & C. T. Raynolds Co., Fulton and William Sts.
Franco-American Chemical Co., Inc., 8 Gold St.
Longman & Martinez, 54 Maiden Lane
Merck & Co., 45 Park Place
National Lead Co., 111 Broadway
United Lead Co., 111 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.

Lithium Benzoate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. Y., New York City
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.

Lithium Bromide

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
W. Va., Malden
Dickinson & Co., J. Q.

Lithium Carbonate, U. S. P.

Mo., St. Louis
Mallinckrodt Chemical Works 3600 N. Second St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.

Lithium Chloride

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.

Lithium Citrate, U. S. P.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place

Lithium Fluoride

N. Y., Brooklyn
Wiarda & Co., John C.

Lithium Iodide

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Powers-Weightmann-Rosengarten Co.

Lithium Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Lithopone

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Braun-Knecht-Heimann Co., 584 Mission St.
Del., Newport
Krebs Pigment & Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Midland Chemical Co., 80 E. Jackson Blvd.
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., Brooklyn
Wiarda & Co., Inc., John C., 273 Green St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Butterworth-Judson Co., 61 Broadway
Edgertyn Aniline Corp., 118 William St.
Edison International Corporation

Lithopone—*cont.*
N. Y., New York City—cont.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
New Jersey Zinc Co., 160 Front St.
Southern Oil & Chemical Co., 15 Park Row
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Sherwin-Williams Co.
Pa., Philadelphia
Beckton Chemical Co., 3500 Grays Ferry Road
Foote Mineral Co., Inc.
Graves Corp., N. Z., 22–24 S. Third St.
Mantau Chemical Co., 3500 Grays Ferry Road

Litmus, Purified Powder
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Logwood (*see Extracts, Logwood*)

Logwood Crystals
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square

Logwood, Solid (*see Extracts, Logwood*)

Logwood Sticks
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.

Lubricants, Graphite (*see Graphite, Grease*)

Lunar Caustic, Sticks (*see Rilver Nitrate*)

Lye
Ohio, Cincinnati
Drackett & Sons Co., P. W., 5020 Spring Grove Ave.

Madder
N. Y., New York City
*Innis, Speiden & Co., 46 Cliff St.

Magnesite (*see Magnesium Carbonate*)

Magnesite Brick
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Magnesite, Crude
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Innis, Speiden & Co., Inc., 46 Cliff St.

Magnesia (*see also Magnesium Oxide*)
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
Ohio, Lockland
Carey Co., Philip
Pa., Ambler
Keasbey & Mattison Co.

Magnesia, Calcined
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., 21 Burling Slip
Pa., Ambler
Keasbey & Mattison Co.

Magnesium (*Metal*)
Mass., Boston
*Richards & Co., Inc., 200 Causeway St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
*Canada Carbide Sales Co., Inc., 30 Church St.
*Cooper & Co., Charles, 194 Worth St.
*Fairbanks, Morse & Co., 30 Church St.
*Fuerst Bros. & Co., 2 Stone St.
*General Chemical Co., 25 Broad St.
*Leavitt & Co., C. W., 30 Church St.
*McKesson & Robbins, Inc., 91 Fulton St.
*Merck & Co., 45 Park Place
Norton Laboratories, 296 Madison Ave.
*Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Niagara Falls
American Magnesium Corp.
N. Y., Schenectady
General Electric Co.
*Organic Products Corporation
Pa., Philadelphia
*Foote Mineral Co., Inc., 120 N. 19th St.
*Lavino & Co., E. J., Bullitt Bldg.
*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Magnesium Arsenate

**Mich., Midland*
Dow Chemical Co.

Magnesium Bromate

Mich., Midland
Dow Chemical Co.

Magnesium Carbonate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Mich., Midland
Dow Chemical Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.
National Aniline & Chemical Co., 21 Burling Slip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Wash., Valley, Stevens Co.
American Mineral Production Co.

Magnesium Chloride

England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Baker & Bro., H. J., 81 Fulton St.
Cooper & Co., Charles, 194 Worth St.
*Doherr, Grimm & Co., 87 Gold St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Norton Laboratories, Inc., 296 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Pomeroy
Graclif Chemical Co.
Pa., Philadelphia
American Magnesium Chloride Co.
Foote Mineral Co., 120 N. 19th St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
*Lewis, John D.

Magnesium Fluosilicate

Ohio, Cleveland
Harshaw, Fuller & Geodwin Co.
Md. Baltimore
Davison Chemical Co., Garrett Bldg.
N. Y., New York City
General Chemical Co., 25 Broad St.

Magnesium Glycerophosphate

Mo., St. Louis
Monsanto Chemical Works, 2d St. and La Fayette Ave.

Magnesium Oxide (*see also Magnesia*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Norton Laboratories, 296 Madison Ave.
Pa., Ambler
Keasbey & Mattison Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Magnesium Perborate

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Magnesium Powder

N. Y., Niagara Falls
American Magnesium Corp.

Magnesium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Magnesium Sulphate

England, Smith Bridge near Rochdale
Dearhead Chemical Co.
Ga., Atlanta
Pratt Laboratories
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Victor Chemical Co., 343 S. Dearborn St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Marden, Orth & Hastings Co., 61 Broadway
*Merck & Co., 45 Park Place
*Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Son, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Ohio, Wickliffe
Clarke Chemical Co.
Pa., Philadelphia
*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Synthetic Chemical Works, Inc.
Scotland, Glasgow
Barr, Ltd., James C.

Malachite, Green Crystaline

N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Malachite, Green Crystals

N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Malachite, Green Powder

N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Maltose

Ohio, Cincinnati
American Diamalt Co., 419 Plum St.

Manganese

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Mass., Boston
Richards & Co., Inc.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Edgertyn Aniline Corp., 118 William St.
Metal & Thermit Corp., 120 Broadway
*Hardy, Charles, 50 Church St.
*Leavitt & Co., C. W., 30 Church St.
Nassau Smelting & Refining Works
*Philipp Bros., Inc., 29 Broadway
*Weymouth, Ralph W., 15-17 E. 40th St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Carnegie Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Manganese Acetate

Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.

Manganese Borate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
Import Chemical Works, 162 First St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc.
Pacific Coast Borax Co., 100 William St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Manganese Carbonate

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Manganese Chloride

N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Manganese Dioxide

Ark., Fort Smith
Industrial Laboratories, Inc.
Cal., Los Angeles
Pacific Mineral Products Co.
Colo., Denver
U. S. Rare Minerals Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
*Hardy, Chas., Inc., 50 Church St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
Heyden Chemical Works, The
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Pfaltz & Bauer, 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Scheel, W. H., 159 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
*Tennant & Sons Co., C., 100 William St.
*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
*Meyer & Sons, J., 480 Bourse Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Madison
Burgess Mineral Co.

Manganese Glycerophosphate

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Manganese Linoleate

N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Manganese, Monochrome

N. Y., New York City
Innis, Speiden & Co., Inc.

Manganese Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Manganese Oxide, (*see Manganese Dioxide*)

Manganese Peroxide (*see Manganese Dioxide*)

Manganese Peptonate

N. Y., New York City
Lehn & Fink, Inc., 120 William St.

Manganese, Recovered

Ill., La Salle
Carus Chemical Co.
N. J., Jersey City
Import Chemical Co., 162 First St.

Manganese Resinate

Colo., Denver,
U. S. Rare Minerals Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Franco-American Chemical Co., 8 Gold St.
*Sloan & Russell, Inc., 132 Nassau St.

Manganese Sulphate

Ark., Fort Smith
Industrial Laboratories, Inc.
N. J., Jersey City
Import Chemical Co., 162 First St.

Manganese Sulphate—*cont.*

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Meyer & Sons J., 480 Bourse Bldg.

Maroon, Direct

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Mastic, Acid Proof

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Menthol

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Mitsui & Co., Ltd.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Suzuki & Co., 220 Broadway

Merbene, Oil of

N. J., Ridgefield Park
British-American Chemical Co., Inc.

Mercuric Bisulphate, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Mercuric Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pfizer & Co., Inc., Chas., 81 Maiden Lane
*Rockhill & Vietor, 22 Cliff St.
Squibb & Sons, E. R., 80 Beekman St.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Mercuric Oxide

Can., Shawinigan Falls, Quebec
Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Canada Carbide Sales Co., Inc., 30 Church St.
*Fairbanks, Morse & Co., 30 Church St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Mercury

Colo., Denver
Mine & Smelter Supply Co.
England, London, E. C. 3
Berk & Co., Ltd., 1 Fenchurch Ave.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
*Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Haas Bros., 27 William St.
*Ketchum & Co., 65 Fulton St.
*Kley, Inc., 39 Cortlandt St.
*Lathrop & Co., H. R., 200 Water St.
*McKesson & Robbins, Inc., 91 Fulton St.
Southern Oil & Chemical Co., 15 Park Row
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Mercury, C. P.

Del., Milford
Caulk Co., The L. D.
N. Y., New York City
Consolidated Dental Mfg. Co., 134 Washington Place

Merrillite

Cal., San Francisco
Merrill Metallurgical Co., 121 Second St.

Mesothorium Salts

N. Y., New York City
Radium Luminous Material Corporation, 55 Liberty St.

Metals (*see also Specific Headings*)

Cal., San Francisco
Pacific Coast Steel Co., Rialto Bldg.
Selby Smelting & Lead Co., Mechanics' Exchange Bldg.
Colo., Denver
Colorado Fuel & Iron Co.
Conn., Bridgeport
American Tube & Stamping Co.
Bridgeport Brass Co.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co., First National Bank Bldg.
Ind., East Chicago
United States Reduction Co.
Mass., Boston
U. S. Smelting, Refining & Mining Co., 55 Congress St.
Mich., Detroit
Michigan Copper & Brass Co., 1611 Jefferson Ave., W.
Michigan Smelting & Refining Co., 1703 Jos. Campau St.
N. J., Chrome
United States Metals Refining Co.
N. J., Perth Amboy
Raritan Copper Works
N. Y., Brooklyn
Atlantic Smelting & Refining Co., 36-42 Delevan St.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Beer, Sondheimer & Co., Inc., 42 Broadway
Drakenfeld & Co., Inc., B. F., 50 Murray St.
Eagle Smelting & Refining Works, Woolworth Bldg.
Nassau Smelting & Refining Works, 605 W. 29th St.
United States Metals Refining Co., 120 Broadway
United States Smelting Co., 120 Broadway
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co., Carnegie Bldg.
Jones & Laughlin Steel Co., 3d Ave. and Ross St.
Pittsburgh Steel Co., Union Arcade Bldg.
Tenn., Ducktown
Ducktown Sulphur, Copper & Iron Co.
Wash., Tacoma
Tacoma Smelting Co.

Methyl Acetate

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Metal, Acid Proof

N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
N. Y., New York City
Duriron Castings Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Keystone Bronze Co., 39th and Allegheny Valley Railroad
Lawrenceville Bronze Co., 3046 Pennsylvania Ave.
Vanadium Metals Co., Forbes and Meyran Sts.
Wayne Brass Foundry, 4635 Butler St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Metal, Acid Resistant

N. Y., New York City
United Lead Co., 111 Broadway
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.

Metanitraniline

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Metanitroparatoluidine

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.

Metaphenylenediamine

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 176 Front St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Metatoluylenediamine

Del., Wilmington
Du Pont Chemical Works
N. Y., New York City
Chemical Co. of America, 176 Front St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Tenn., Kingsport
Federal Dyestuffs & Chemical Corp.

Methyl Alcohol (*see Alcohol, Methyl*)

Methyl Anthranylate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Bush & Co., W. J., 100 William St.
Compagnie, Morana, 184 Fifth Ave.
*Fritzsche Bros., 82 Beekman St.
Gross & Co., Geo. V., 30 Old Slip St.
*Van Dyk & Co., 6 Platt St.

Methyl Benzoate

N. J., Jersey City
Seydel Mfg. Co., Forrest and Haillday Sts.

Methyl Iodide

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Methyl Oxyhydrate

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Methyl Salicylate

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Heyden Chemical Works, 135 William St.
Merch & Co., 45 Park Place

Methyl Sulphate, Di

N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.

Mica

N. Y., New York City
*Diamond Drill Carbon Co., 53–63 Park Row
*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Mica, Brazilian

N. Y., New York City
*Diamond Drill Carbon Co., 53–63 Park Row

Mica, Electrical

Mo., St. Louis
Dielectric Mfg. Co.

Minerals, Rare

Cal., Los Angeles
Calm, C. E., California Club
Colo., Denver
U. S. Rare Minerals Co.
Colo., Montrose
Willmarth, O. Barlow
N. Y., New York City
*Leavitt & Co., C. W.
Pa., Philadelphia
Foote Mineral Co., Inc., 120 N. 19th St.
Pennsylvania Salt Mfg. Co.
Lavino & Co., C. J., Bullitt Bldg.

Mineral Fillers

Ill., Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Mineral Wool (*see Asbestos*)

Moellons

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
Marden, Orth & Hastings Corpn., 61 Broadway

Molybdenates

Cal., Los Angeles
Calm, C. E., California Club
Canada, Ontario, Orillia
*International Molybdenum Co., Ltd.
N. Y., New York City
*Hardy, Charles, 50 Church St.
*Philipp Bros., Inc., 29 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Molybdenite (*see Molybdenum Sulfide*)

Molybdenum, Metal

Ill., North Chicago
Pfanstiehl Co., Inc.
N. Y., Schenectady
Organic Products Corporation
N. Y., New York City
American Smelting & Refining Co., 120 Broadway

Molybdenum, Metal (Rod)

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Molybdenum, Metal (Wire)

N. Y., Port Chester
Mallory & Co., Inc., P. R.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Molybdenum Sulfide

N. Y., New York City
*Weymouth, Ralph W., 15-17 E. 40th St.
Pa., Philadelphia
Foote Mineral Ca., 107 N. 19th St.

Monazite Ore

N. Y., New York City
*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Monobrombenzene

(*see Brombenzene*)

Monochlorbenzene

(*see Chlorbenzene*)

Monoethylaniline (*see Ethylaniline*)

Morphine, Diacetyl Alkaloid

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

Morphine Sulphate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

Moss, Sea

N. Y., New York City
Innis, Speiden & Co., 46 Cliff St.

Muriatic Acid (*see Acid, Hydrochloric*)

Musk, Artificial

N. J., Bayonne
Standard Chemical Co., W. 5th St.

Myrabolams

Mass., Boston
Montgomery & Co., W. L., 146 Summer St.
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Downes & Co., Inc., 102 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Naphtha

Ala., Birmingham
Tennessee Coal, Iron & R. R. Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Interocean Oil Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Interocean Oil Co., 90 West St.
New Jersey Products, Inc., 165 Broadway
Texas Co., 17 Battery Place
United States Asphalt Refining Co.
Zobel Co., Inc., Ernst, 38 Water St.

Naphtha, Refined Solvent

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co., Widener Bldg.

Naphtha, Solvent

Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont Chemical Works
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., Buffalo
Lackawanna Steel Co.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
Barrett Co., 17 Battery Place

Naphtha, Solvent—*cont.*

N. Y., New York City—cont.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*New Jersey Products, Inc., 165 Broadway
*Williamson & Co., 120 Broadway
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Midvale Steel Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Naphtha, Solvent, Crude

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., Buffalo
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co. Widener Bldg.

Naphtha, Solvent, Heavy

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.

Naphthalene

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee, Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Darlington
Parkin, Ness & Co., Quebec St.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
American Tar Products Co., 208 S. La Salle St.
By-Products Coke Corp.
*Daigger & Co., A., 54 W. Kinzie St.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co., First National Bank Bldg.
Ill., Madison
Kettle River Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wynadotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Station
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
Lackawanna Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., The, 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Edison International Corporation, 165 Broadway
Marden, Orth & Hastings Corpn., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
*New Jersey Products, Inc., 165 Broadway
Niagara Coke Corp., 6 Church St.
*Nitrate Agencies Co., 102 Pearl St.
Rector Chemical Co., 2 Rector St.
Roessler & Hasslacher Chemical Co., 100 William St.
Texas Co., 17 Battery Place
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.

Naphthalene—*cont.*

Ohio, Cleveland—cont.
Sherwin-Williams Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Cincinnati
Chatfield Mfg. Co., 3d and Plum Sts.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Sandusky
Hard Color Products Co.
Ohio, Steubenville
La Belle Iron Works
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Allegheny By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Harmer Laboratories Co., 1704 Market St.
Midvale Steel Co., Widener Bldg.
Smith, Kline & French Co., 431 Arch St.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Naphthalene (Balls)

Cal., San Francisco
Braun-Knecht-Heimann Co., 384 Mission St.
England, London
*Dexters, Ltd., 362 City Road
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Naphthalene (Flake)

England, London
*Dexters, Ltd., 362 City Road
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ind., Indianapolis
Republic Creosoting Co., Merchants Bank Bldg.
Mo., St. Louis
Lambert Chemical Co.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Barrett Co., 17 Battery Place
Edison International Corporation, 165 Broadway
*Klipstein & Co., A.. 644 Greenwich St.
New Jersey Products, Inc., 165 Broadway
*Nitrate Agencies Co., 102 Pearl St.
*Rector Chemical Co., Inc., 2 Rector St.
Pa., Johnstown
Union Chemical & Refining Co., Lutheran Bldg.

Naphthalene, Dinitro

N. Y., Kingston
Nitrated Chemicals Co.

Naphthol, Alpha

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New Yo k City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Naphthol, Alpha, Crude

Ohio, Sandusky
Hord Color Products Co., The

Naphthol, Alpha, Distilled

Ohio, Sandusky
Hord Color Products Co., The

Naphthol, Beta

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mo., St. Louis
Mallinckrodt Chemical Works

Naphthol, Beta—*cont.*

N. J., Bound Brook
Calco Chemical Co.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., Brooklyn
Bristol-Myers Co., 281 Greene Ave.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 28 Platt St.
Heller & Merz Co., 505 Hudson St.
*Heminway, Inc., Frank, 115 Broadway
Independent Chemical Co., 72 Front St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth Hasting Corp'n., 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Rector Chemical Co., Inc., 2 Rector St.
Southern Oil & Chemical Co., 15 Park Row
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Schenectady
Organic Products Corporation
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Naphthol Benzoate, Beta

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Organic Products Corp., 469 State St.

Naphthylamin, Alpha

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Barrett Co., 17 Battery Pl.
Chemical Co. of America, 28 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth, Hasting Corp'n, 61 Broadway
*Williamson & Co., 120 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Naphthylamin, Alpha, Hydrochloride

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Pa., Philadelphia
Harmer Laboratories, 1704 Market St.

Napthylamine, Alpha

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Napthylamine, Beta

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Marden, Orth Hasting Corp'n, 61 Broadway
Pa., Philadelphia
Harmer Laboratories, 1704 Market St.

Naphthylamine, Black D

Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Naphthyl Salicylate, Beta

N. Y., New York City
Organic Products Corp., 469 State St.

Nickel

Conn., New Haven
United Smelting & Aluminum Co., Inc.
Conn., Springdale
Stamford Rolling Mills Co., Inc.
Ill., Chicago
Illinois Smelting & Refining Co., 410 N. Peoria St.

Nickel—*cont.*

Mich., Detroit
Michigan Smelting & Refining Co., 1703 Jos. Campau Ave.
Mo., St. Louis
Gilbert & Sons, Brass Foundry, A., 4015 Forest Park Blvd.
N. J., Harrison
Driver, Harris Co.
N. J., New Brunswick
United States Nickel Co.
N. Y., Brooklyn
*Wiarda & Co., John C.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining & Mining Co., 120 Broadway
Cooper & Co., Charles, 194 Worth St.
Drakenfeld & Co., Inc., B. F., 50 Murray St.
Imex Corporation, 25 Beaver St.
International Nickel Co., 43 Exchange Place.
Nassau Smelting & Refining Works, Ltd.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Nickel Ammonium Sulphate

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Squibb & Sons, E. R., 80 Beekman St.

Nickel Carbonate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Nickel Chloride

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuerst Bros. & Co., 2 Stone St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Nickel Formate

N. Y., Syracuse
Rosebrugh Chemical Corporation, 1618 N. Salina St.

Nickel Oxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper, Chas. & Co., 194 Worth St.
*Fuerst Bros. & Co., 2 Stone St.
*Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Easton
*Baker & Adamson Chemical Co.

Nickel Oxide, Green, Pure

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Nickel Sulphate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Perth Amboy
Raritan Copper Works
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Eimer & Amend, Third Ave., 18th to 19th Sts.
*Fuerst Bros. & Co., 2 Stone St.
New Jersey Products, Inc., 165 Broadway
Philipp Bros., Inc., 29 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Nigrosines

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Bound Brook
Calco Chemical Co.
N. Y., Brooklyn
Zobel Color Works, Inc., 95–127 Ninth St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Edgertyn Aniline Corp., 118 William St.
Empire Chemical Co., 149 Broadway
Industrial Chemical Co., 5th Ave. Bldg.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
L. & R. Organic Products Co., Inc., 27 Thames St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. & 11th Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Nitraniline, Meta

Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.

Nitraniline, Ortho.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Nitraniline, Para

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
N. J., Bound Brook
Calco Chemical Co.
N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
Klipstein & Sons Co., E. C., 644 Greenwich St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n., 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Rector Chemical Co., Inc., 2 Rector St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Nitre Cake

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co.
Del., Wilmington
Atlas Powder Co.
DuPont de Nemours & Co., E. I.
Hercules Powder Co.
Ill., Chicago
Armour Fertilizer Works
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Commercial Acid Co., Boatman's Bldg.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
American Metal Co., Inc., 61 Broadway
Butterworth-Judson Corp., 61 Broadway
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Southern Oil & Chemical Co., 15 Park Row
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pa., Warren
Riverside Acid Works
Tenn., Copperhill
Tennessee Copper Co.

Nitroacetanilid, Para

N. Y., New York City
Alpha Chemical Works, Inc., Woolworth Bldg.
Aniline Dyes and Chemicals, Inc., Cedar & Washington Sts.
Chemical Co. of America, 28 Platt St.
Edison International Corporation, 165 Broadway
Klipstein & Sons Co., E. C., 644 Greenwich St.

Nitrobenzene

Conn., Naugatuck
Naugatuck Chemical Co.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Bound Brook
Calco Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. J., Perth Amboy
General Supply Co., Market St., and Bertrand Ave.
N. Y., New York City
Aniline Dyes and Chemicals, Inc., Cedar & Washington Sts.
Chemical Co., of America
Edison International Corporation, 165 Broadway

Nitrobenzene—*cont.*

N. Y., New York City—cont.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
New Jersey Products, Inc., 165 Broadway
Rector Chemical Co., 2 Rector St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Nitrobenzol (*see Nitrobenzene*)

Nitrocellulose

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co.
Ill., Chicago
Van Schaack Bros. Chemical Works
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
Aetna Explosives Co., Inc., 120 Broadway
Celluloid Co., 30 Washington Place

Nitrochlorbenzene, Di

N. Y., City of Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.

Nitrochlorbenzene, Ortho

Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.

Nitrochlorbenzene, Para

Del., Wilmington
Du Pont Chemical Works
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Nitrogen

N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway
Linde Air Products Co., 42d St. Bldg.
Wash., Seattle
American Nitrogen Products Co.

Nitroglycerine (*see Explosives*)

Nitronaphthalene

Ill., Chicago
Research Laboratory of Chicago, 467 E Ontario St.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar & Washington Sts.
Barrett Co., 17 Battery Place
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitronaphthylamine

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Nitrophenol, Ortho

Conn., Stamford
American Synthetic Color Co.
Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
Ill., Monroe
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Herman & Herman, Inc., 6 Church St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc. 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Rector Chemical Co., 2 Rector St.
N. Y., North Tonawanda
Synthetic Products Co., Inc.
Pa., Philadelphia
Harmer Laboratories Co.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrophenol, Para

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
Ill., Monroe
Monroe Color & Chemical Co.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Merck & Co., 45 Park Place
National Aniline and Chemical Co. Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Rector Chemical Co., 2 Rector St.
N. Y., North Tonawanda
Synthetic Products Co., Inc.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrosobethanaphthol

Pa., Philadelphia
Harmer Laboratories Co.

Nitrosodimethylaniline

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway

Nitrosodimethylaniline, Base and Hydrochloride

Pa., Philadelphia
Harmer Laboratories Co.

Nitrosodimethylaniline Base-p

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Nitrosodimethylaniline, Para

Del., Wilmington
Du Pont Chemical Works
Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Nitro Sodium Phenolate, Para

Del., Wilmington
Du Pont Chemical Works
Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Nitrotoluene

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Chemical Co. of America, 176 Front St.
Dye Products & Chemical Co., Inc., 202 Fifth Ave.
Empire Chemical Co., 149 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Newport Chemical Works, Inc., 120 Broadway
Ind., Hammond
Western Aniline Products Co.

Nitrotoluene, Mono

Del., Wilmington
Du Pont Chemical Co.
Ind., Hammond
Western Aniline Products Co., Morton Court

Nitrotoluene, Ortho

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Burdett Mfg. Co.
National Ox-Hydro Co.
Ind., Hammond
Western Aniline Products Co.
N. Y., New York City
Chemical Co. of America, 176 Front St.
Empire Chemical Co., 149 Broadway
Merck & Co., 45 Park Place
Transatlantic Chemical Corporation, 192 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrotoluene, Para

Ind., Hammond
Western Aniline Products Co., Morton Court
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Empire Chemical Co., 149 Broadway
Merck & Co., 45 Park Place
Transatlantic Chemical Corporation, 192 Broadway
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrous Oxide

Ill., Chicago
*Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Marquette Road

Nitroxylene

Ind., Indianapolis
Montcalm Chemical Works, 220 N. Illinois St.
N. J., Newark
Central Dyestuff & Chemical Co.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
*Eimer & Amend, Third Ave., 18th to 19th Sts.
*Marden, Orth & Hastings Corp'n, 61 Broadway
*Merck & Co., 45 Park Place

Nuclein

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Oakum

Mo., St. Louis
Broderick & Bascom Rope Co.
N. J., Jersey City
Davey, W. O., Sons
Stratford, Oakum Co., Geo.
Ohio, Xenia
Hooven & Allison Co.
Pa., Philadelphia
Hoffman-Corr Mfg. Co.

Ochre

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Illinois Smelting & Refining Co.
N. J., Lincoln
Atlas Mineral Products Co.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
New Jersey Zinc Co., 160 Front St.

Oil, Almonds Bitter

N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.

Oil, Aniline (*see Aniline*)

Oil, Banana

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Oil, Cassia

N. Y., New York City
*Weymouth, Ralph W., 111 Broadway

Oil, Castor

Cal., San Francisco
Balfour, Guthrie & Co., 350 California St.
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
McCormick & Co., McCormick Bldg.
Webb & Sons, A. L., 115 E. Lombard St.
Mass., Atlantic
Bosson & Lane
Mass., Boston
National Lead Co., 126 State St.
N. J., Harrison
National Oil Products Co.
N. Y., New York City
Aratol Mfg. Co., 100 William St.
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Francesconi & Co., J. C., 25 Beaver St.
*Fuerst Bros. & Co., 2 Stone St.
Jardine Matheson & Co., Ltd., 25 Madison Ave.
Marden, Orth & Hastings Corp'n., 67 Broadway
Oil Seeds Co., 38 S. William St.
*Sloan & Russell, Inc., 132 Nassau St.
Texas Co., 17 Battery Place
*Williamson & Co., 120 Broadway
N. Y., North Tonawanda
*Riverside Chemical Co., 1194-96 Oliver St.
Ohio, Cincinnati
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Oil, China Wood

Cal., San Francisco
Dill & Crosett, Inc., 235 Pine St.
N. J., Newark
American Oil & Supply Co., 52 La-Fayette St.
N. Y., New York City
Balfour, Williamson & Co., 43 Exchange Place
Cook Oil Co., N. B., 148 Front St.
Devoe, F. W., & C. F. Raynolds Co., Fulton and William Sts.
Francesconi & Co., J. C., 25 Beaver St.
Jardine, Matheson & Co., Ltd., 25 Madison Ave.
Marden, Orth & Hastings Corp'n
Mitsui & Co., Ltd., 65 Broadway

Oil, Cocoanut

Cal., San Francisco
Andersen & Co., A. O., 242 California St.
Dill-Crosett, Inc., 235 Pine St.
Mitsui & Co., Merchants' Exchange Bldg.
Stauffer Chemical Co., 624 California St.
N. Y., Buffalo
Kellogg, Spencer & Sons., Inc., Niagara Square
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Cook's, Adam, Sons, 708 Washington St.
Francesconi & Co., J. C., 25 Beaver St.
Marden, Orth & Hastings Corp'n
Nucoa Butter Co., 233 Broadway
Ohio, Cincinnati
Winkler & Bro., Isaac, 1st National Bank Bldg.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Oil, Cod

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway

Oil, Corn

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Wilson & Co., 41st St. and Ashland Ave.
Ind., Edinburg
Union Starch Refining Co.
Ind., Indianapolis
American Hominy Co., Fletcher Trust Bldg.
Iowa, Cedar Rapids
Douglas Co.
Mich., Harbor Beach
Huron Milling Co.
N. J. Harrison
National Oil Products Co.
N. Y., New York City
American Maize-Products Co., 135 William St.
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Corn Products Refining Co., 17 Battery Place
Francesconi & Co., J. C., 25 Beaver St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Oil, Cottonseed

Ala., Troy
Standard Chemical & Oil Co.
Cal., Los Angeles
California Food Products Co.
Ga., Augusta
Georgia Cotton Oil Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Fairbanks & Co., N. K., 7 S. Dearborn Ave.
Swift & Co., Union Stock Yards
Wilson & Co., 41st and Ashland Ave.
Ky., Louisville
Louisville Cotton Oil Co.
Victor Cotton Oil Co.
N. Y., New York City
American Cotton Oil Co., 27 Beaver St.
*Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Southern Cotton Oil Co., 24 Broad St.
Union Seed & Fertilizer Co., 27 Beaver St.
Ohio, Cincinnati
Buckeye Cotton Oil Co.
Globe Soap Co.
Proctor & Gamble Co.
R. I., Providence
Union Oil Co.

Oil, Dead

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Oil, Kapok

N. Y., New York City
*Boyer Oil Co., Inc., 29 Broadway

Oil, Lemon

N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.

Oil, Linseed

Cal., Los Angeles
Globe Grain & Milling Co.
Cal., San Francisco
Dill-Crosett, Inc., Postal Telegraph Bldg.
Pacific Oil & Lead Works, 155 Townsend St.
Ill., Chicago
Chicago White Lead & Oil Co., 15th and Western Ave.
*Daigger & Co., A., 54 W. Kinzie St.
Minn., Minneapolis
Archer-Daniels Linseed Co., 2901 S. E. 6th St.
Minnesota Linseed Oil Co., 1101 S. 3d St.
Northern Linseed Oil Co.
Midland Linseed Products Co.

Oil, Linseed—*cont.*

N. Y., Buffalo
Longman & Martinez, 207 Pearl St.
Mann Bros. Co., 332 Ohio Ave.
Niagara Linseed Oil Works
Spencer, Kellogg & Sons, Inc.
N. Y., New York City
American Linseed Co., Woolworth Bldg.
American Cotton Oil Co., 27 Beaver St.
Cook Oil Co., N. B., 148 Front St.
Marden, Orth & Hastings Corp'n., 61 Broadway
National Lead Co., 111 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Ohio, Toledo
Toledo Seed & Oil Co.
Pa., Philadelphia
Lewis & Bros., Co., J. T., Lafayette Bldg.
Pa., Pittsburgh
National Lead & Oil Co. of Pa., Commonwealth Bldg.

Oil, Lumbang

N. Y., New York City
*Boyer Oil Co., Inc., 29 Broadway

Oil, Mustard

N. Y., New York City
*Boyer Oil Co., Inc., 29 Broadway

Oil, Myrbane

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Oil, Olein

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Ohio, St. Bernard
Werk Co., The M., Murray Ave.

Oil, Oleine

Mass., Atlantic
Bosson & Lane

Oil, Olive

Cal., Los Angeles
American Olive Co.
Star Specialty Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Pompeian Co.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Bush & Co., W. J., 100 William St.
Chiris, Antoine Co., 18 Platt St.
Marden Orth & Hastings Corp'n, 61 Broadway

Oil, Palm

Mass., Boston
Young Co., Frank L., 111 Purchase St.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Oil, Peach Kernels

N. Y., New York City
Bush & Co., Inc., W. J., 100 William St.

Oil, Peanut

Ala., Troy
Standard Chemical & Oil Co.
Cal., San Francisco
Balfour, Guthrie & Co., 350 California St.
N. Y., New York City
American Cotton Oil Co., 65 Broadway
Boehm, Ltd., Fred., Prod. Exch.
Francesconi & Co., J. C., 25 Beaver St.
Marden, Orth & Hastings Corp'n
Swan & Finch Co., 165 Broadway
Texas, Beaumont
Beaumont Peanut Oil Co.

Oil, Perilla

N. Y., New York City
*Boyer Oil Co., Inc., 29 Broadway

Oil, Pine

Fla., Jacksonville
Florida Wood Products Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Cutting
Georgia Lumber & Turpentine Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
La., New Orleans
American Turpentine & Tar Co., Ltd.
Gulf Naval Stores Supply Co.
N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Fuller & Co., Ralph L., 4 Rector St.
Georgia Pine Turpentine Co., 160 Perry St.
General Naval Stores Co., Inc., 90 West St.
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Oil, Poppyseed

N. Y., New York City
*Boyer Oil Co., Inc., 29 Broadway

Oil, Rapeseed

Cal., San Francisco
Andersen & Co., A. O., 242 California St.
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Cook & Co., N. B., 148 Front St.
Francesconi & Co., J. C., 25 Beaver St.
Marden, Orth & Hastings Co., 61 Broadway
Mitsui & Co., Ltd.
National Gum & Mica Co., 59th St. and 11th Ave.
*Sloan & Russell, Inc., 132 Nassau St.

Oil, Red (*see Acid, Oleic*)

Oil, Soya Bean

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Marden, Orth & Hastings Corp'n., 61 Broadway
*Mitsui & Co., Ltd., 25 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
Oil Seeds Co., 35 S. William St.

Oil, Vitriol (*see Acid, Sulphuric*)

Oils, Acetone

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Buffalo
Wood Products Co.
N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.
U. S. Industrial Chemical Co., 27 William St.
Mich., Wells
Delta Chemical Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
Pa., East Smethport
Norwich Chemical Co.

Oils, Animal

Ill., Chicago
Armour & Co., 208 S. La Salle St.
Cudahy Packing Co., 111 W. Monroe St.
Wilson & Co., 41st St. and Ashland Ave.
N. Y., Buffalo
Dold Packing Co., Jacob, 745 William St.
N. Y., New York City
*Marden, Orth & Hastings Corp'n

Oils, Anthracene

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Oils, Asphaltum

Cal., San Francisco
Standard Oil Co.
N. Y., New York City
Texas Co., 17 Battery Place
Ohio, Cleveland
National Refining Co., Rose Bldg.
Ohio, Toledo
Sun Co.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.

Oils, Bean

N. Y., New York City
*Arnhold, Karberg & Co., 21 State St.
Gillespie & Sons, L. C., 6 Fletcher St.
Mitsui & Co., Inc., 65 Broadway
Marden, Orth & Hastings Corp'n., 61 Broadway
*Patterson & Co., G. W. S., 133 Front St.
*Swan & Co., Alden S., 133 Front St.
Swan & Finch Co., 151 Maiden Lane

Oils, Bleaching

Mass., Atlantic
Bosson & Lane
N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.

Oils, Camphor (*see Oils, Essential*)

Oils, Coal Tar

Ill., Chicago
American Tar Products Co., 208 S. La Salle St.
Ill., Moline
Lewis, F. J., Mfg. Co.
Ohio, Cleveland
Warren Refining & Chemical Co.
Pa., Bethlehem
Bethlehem Steel Co.

Oils, Creosote

Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Ga., Savannah
Southern Oil & Chemical Co.
Ill., Chicago
American Coal Tar Products, 208 S. La Salle St.
*Daigger & Co., A., 54 W. Kinzie St.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ind., Indianapolis
Republic Creosoting Co., Merchants Bank Bldg.
Mich., Detroit
Charcoal Iron Co. of America
N. Y., New York City
Barrett Co., 17 Battery Place
Edison International Corporation, 165 Broadway
Georgia Pine Turpentine Co., of New York, 160 Perry St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
Chatfield Mfg. Co., 3d and Plum Sts.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
Warren Refining & Chemical Co.
Pa., Philadelphia
Atlantic Turpentine & Refining Co., 421 Chestnut St.
United Gas Improvement Co., Broad and Arch Sts.
Wash., Tacoma
Standard Chemical Co.

Oils, Essential

Cal., Redlands
Citrus Products Co.
Kingsbury, H. P. D.
Cal., San Francisco
Coffin, Redington & Co., 625 3d Ave.
England, Liverpool
Clayton & Jowett, Ltd., 5 Concert St.
Ill., Chicago
Barrett & Co., M. L., 333 W. Lake Ave.
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Metcalf Co., Theo., 535 Boyleston Ave.
N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
American Aniline Products Co., Inc., 15 E. 12th St.
Arnold, Karberg & Co., 21 State St.
Bush & Co., W. J., 100 William St.
Chiris Co., Antoine, 18 Platt St.
Dodge & Olcott Co., 87 Fulton St.
Edgertyn Aniline Corp., 118 William St.
Florasynth Laboratories, 15 Beekman St.
*Fuerst Bros. & Co., 2 Stone St.
*Fritzache Bros., 82 Beekman St.
*Fuller & Co., Ralph L., 4 Rector St.
Heine & Co., 7 Platt St.
Industrial Chemical Co., Fifth Ave. Bldg.
*Lueders & Co., Geo., 218 Pearl St.
McKesson & Robbins Co., Inc., 91 Fulton St.
*Magnus, Mabee & Reynard, 257 Pearl St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
*Rockhill & Vietor, 114 John St.
Rudkin & Co., J. A., 265 Broaway
*Sloan & Russell, Inc., 132 Nassau St.
Southern Oil & Chemical Co., 15 Park Row
*Stilwell Co., A. A., 28 Cliff St.
Ungerer & Co., 273 Pearl St.
Van Dyk & Co., 4–6 Platt St.
Wood & Selick, 36 Hudson St.
*Zinkelsen & Co., 135 William St.
Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.
Va., Richmond
Sauer Co., C. F.
Spain, Barcelona
Sociedad Anonima Monegal, Apartado Correos, No. 144

Oils, Essential, Terpeneless

N. Y., New York City
Bush & Co., W. J., 100 William St.

Oils, Ethereal

N. Y., New York City
Merck & Co., 45 Park Place
Ohio, Cincinnati
Merrell Chemical Co., Wm. S., 515 E. 5th St.
Pa., Piladelphia
Powerhs-Weightman-Rosengarten Co.

Oils, Fish

Cal., Los Angeles
Balfour, Guthrie, & Co.
California Food Products Co., 913 E. 3rd St.
Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Del., Lewes
Lewes Chemical & Oil Co.
Ill., Chicago
Rhodes & Co., Jas. H., 157 W. Austin Ave.
N. Y., New York City
Cook Oil Co., N. B., 148 Front St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Flotation

Cal., San Francisco
Standard Oil Co. of Cal., 200 Bush St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
Southern Oil & Chemical Co.
Ill., Chicago
American Tar Products Co., 208 S. La Salle St
La., New Orleans
American Turpentine & Tar Co., New Basin
N. Y., New York City
Barrett Co., 17 Battery Place
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N B., 128 Front St.
Flotation Oil & Chemical Co., 2 Rector St.
*General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of N. Y., 160 Perry St
Pa., Grassland
Essential Oil Specialties Co., Inc.
Wash., Tacoma
Standard Chemical Co.

Oils, Flower

N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Fruit

Mass., Boston
American Soda Fountain Co.
N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
*Stillwell Co., A. A., 28 Cliff St.

Oils, Fusel

Ill., Chicago
Van Schaack Bros. Chemical Works, 3358 Avondale St.
Ill., Pekin
American Distilling Co.
La., New Orleans
Jefferson Distilling & Denaturing Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Bush & Co., W. J., 100 William St.
Celluloid Zapon Co., 200 5th Ave.
Dodge & Olcott Co., 87 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip

Oils, Hydrocarbon

Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Ohio, Toledo
Sun Co.
Pa., Bradford
Emery Mfg. Co.

Oils, Hydrogenated

N. Y., New York City
Marden, Orth & Hastings Corp'n., 61 Broadway

Oils, Leather

N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Mineral

Scotland, Glasgow
Pumpherston Oil Co., Ltd., 135 Buchanan St.

Oils, Mineral, White

N. Y., New York City
Lehn & Fink, Inc., 120 William St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Standard Oil Co., 26 Broadway
*Swan & Finch Co., 151 Maiden Lane

Oils, Mohlene

N. Y., New York City
Marden, Orth & Hastings Corp'n., 61 Broadway

Oils, Monoline

Mass., Boston
Bosson & Lane

Oils, Monopole, U. S. P.

N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.

Oils, Olive

Cal., Los Angeles
American Olive Co., E. Adams and Long Beach Ave.
Ill., Chicago
Libby, McNeill & Libby, Union Stock Yards
Md., Baltimore
Pompeian Co., Coca Cola Bldg.
Mass., Boston
Marden, Orth & Hastings Corp'n
N. Y., Brooklyn
Alart & McGuire Co., 116 Imlay St.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Chiris Co., Antoine, 18 Platt St.
Marden, Orth & Hastings Corp'n
Nafra Co., Inc., 120 Broadway
Nicholas & Co., Geo. S., 43 Beaver St.

Oils, Paint

N. Y., New York City
*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Paraffine

Cal., San Francisco
Standard Oil Co. of Cal., 200 Bush St.
Ill., Chicago
Consumers Refining Co., 76 W. Monroe St.
Sinclair Refining Co., Conway Bldg.
N. Y., New York City
Texas Co., 17 Battery Place
Ohio, Toledo
Sun Co.
Pa., Oil City
Continental Refining Co., Ltd., Box 175
Pa., Philadelphia
Crew-Levick Co., 111 N. Broad St.

Oils, Pine Flotation

Fla., Jacksonville
Florida Wood Products Co.

Oils, Pine, Steam Distilled, Plain and Soluble

La., Elizabeth
Producers Turpentine Co.

Oils, Pine Tar

N. Y., New York City
*General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of New York, 160 Perry St.

Oils, Rosin

Ga., Cutting
Georgia Lumber & Turpentine Co.
Ga., Savannah
Willcox-Ives Oil Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
La., New Orleans
American Turpentine & Tar Co., Ltd
Gulf Naval Stores Supply Co.
Mass., Atlantic
Bosson & Lane
N. Y., New York City
*Casey & Co., J. A., 144 Maiden Lane
Edgertyn Aniline Corp., 118 William St.
*General Naval Stores Co., Inc.
Georgia Pine Turpentine Co., 158 Perry St.
Marden, Orth & Hastings Corp'n., 61 Broadway
Ohio, Cincinnati
*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.

Oils, Sassafras

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Seal

N. Y., New York City
*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Soluble

England, West Bromwich
Lewington Whitehouse, Olympic Works, Carters Green
Ill., Chicago
Wolf & Co., Jacques, 342 Lexington Ave.
Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Thomsen Chemical Co., Race and Winder Sts.
Mass., Atlantic
Bosson & Lane
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. J., Harrison
National Oil Products Co., Essex and First St.
N. J., Jersey City
Interstate Chemical Co., 667 Garfield Ave.

Oils, Soluble—*cont.*

N. Y., New York City
Arabol Mfg. Co., 100 William St.
Barrett Co., 17 Battery Place
Fiske Bros. Refining Co., 24 State St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Sonneborn Sons, L., 262 Pearl St.
Standard Oil Co., 26 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Pa., Erie
Bayerson Oil Works
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Oils, Soya Bean

Cal., San Francisco
Balfour, Guthrie & Co., 350 California St.
Dill-Crosett, Inc., 235 Pine St.
Mass., Boston
Young Co., Frank L., 111 Purchase St.
N. Y., New York City
Boyer Oil Co., Inc., 29 Broadway
Cook Oil Co., N. B., 148 Front St.
Francesconi & Co., J. C., 25 Beaver St.
Jardine, Matheson & Co., Ltd., 25 Madison Ave.
Marden, Orth & Hastings Corp'n
Ohio, Cleveland
Harshaw, Fuller & Goodwin.Co

Oils, Sperm

N. Y., New York City
*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Sulphonated

Md., Baltimore
Bloede Co., Victor G., Caton Ave.
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row
Arabol Mfg. Co., 100 William St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Oils, Sulphur

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Synthetic

N. Y., New York City
Van Dyk & Co., 4-6 Platt St.

Oils, Tanners'

N. Y., New York City
*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Tar

Fla., Jacksonville
Florida Wood Products Co.
N. Y., New York City
Casey & Co., J. A., 144 Maiden Lane
Georgia Pine Turpentine Co., 158 Perry St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Zobel Co., Inc., Ernst, 38 Water St.

Oils, Turkey Red

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. & B. & O. R. R.
Mass., Atlantic
Bosson & Lane
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.
N. Y., New York City
Herrick-Voigt Corporation, 1 Liberty St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Sonneborn Sons, L., 262 Pearl St.
Welch, Holme & Clark Co., 383 West St.
Ohio, Toledo
Paragon Mfg. Co.
Pa., Oil City
Pennsylvania Refining Co.
Texas, Galveston
Magnolia Petroleum Co.

Oils, Vegetable

Ill., Chicago
Swift & Co., Union Stock Yards
N. J., Bayonne
Nucoa Butter Co.
N. Y., New York City
American Edible Oils Co., 171 Duane St.
*Cooper & Cooper, 309 Broadway
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
*Welch, Holme & Clark Co., 381 West St.
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Ohio, Dayton
Economy Soap Products Co., N. Irwin St.
Pa., Philadelphia
Union Petroleum Co., Widener Bldg.

Oils, Whale

N. Y., New York City
*Marden, Orth & Hastings Corp'n, 61 Broadway

Oils, Wintergreen

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Wood

Cal., San Francisco
Balfour, Guthrie Co.
Dill-Crosett, Inc., 235 Pine St.
Del., Wilmington
Du Pont de Nemours Co., E. I.
Mich., Wells
Delta Chemical Co.
Mashek Chemical & Iron Co.
N. Y., New York City
General Naval Stores Co., Inc., 90 West St.
Jardine, Matheson & Co., Ltd., 25 Madison Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Oils, Wood, Creosote

Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Oils, Wood Preserving

Ill., Madison
Kettle River Co.

Oils, Wool

Cal., Los Angeles
Union Oil Co. of Cal., 215 W. 7th St.
Cal., San Francisco
Standard Oil Co. of Cal., 200 Bush St.
N. Y., New York City
Sonneborn Sons, Inc., L., 262 Pearl St.
Swan & Finch Co., 165 Broadway
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Toledo
Sun Co.

Oleum (*see Acid, Sulphuric, Fuming*)

Olo Naphthol

Mass., Atlantic
Bosson & Lane

Olo Soffene

Mass., Atlantic
Bosson & Lane

Orange

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Orange, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Orange, Anthranine

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Orange, Basic

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Brilliant D. P.

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Chrome

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Orange Direct

R. I., Providence
Industrial Chemical Co., Inc., 283 Pitman St.

Orange, Direct Fast

N. J., Bound Brook
Peerless Color Co., Inc.
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.
Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Orange, Direct 3 G.

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Orange, Direct R.

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Orange II

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.

Orange III

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Orange, G., Crystals

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Orange, Methyl

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Orange, Napthol

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Orange, Oil Soluble

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orange, Spirit Soluble

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Orpiment (*see Arsenic Sulphide*)

Ortholene

N. J., Elizabeth
Bayway Chemical Co.

Orthophene Bate (*For deliming and Skins*)

N. Y., New York City
Apex Chemical Co., Inc., 63 Park Row

Osage Orange Extract (*see Extract, Osage Orange*)

Osmium

N. J., Newark
American Platinum Works, 225–231 New Jersey R. R. Ave.
Baker & Co., Inc., Murray and Austin Sts.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
Foote Mineral Co., Inc., 111–113 N. 19th St.

Osmium Chloride

N. J., Newark
American Platinum Works, 225–231 New Jersey R. R. Ave.

Osseine

N. Y., New York City
*Wilckes-Martin-Wilckes Co., 135 William St.

Oxgall Products

Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Oxygen

Ill., Chicago
*Burdett Co., St. Johns Court
*Daigger & Co., A., 54 W. Kinzie St.
Ind., Indianapolis
Prest-O-lite Co., Inc.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway
American Oxygen Co.
Linde Air Products Co., 42d St. Bldg.
N. Y., Niagara Falls
Castner Electrolytic Alkali Co.
Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Ohio, Wickliffe
Clarke Chemical Co., St. Clair St.
Pa., Philadelphia
White Dental Mfg. Co., S. S.

Ozokerite

Mass., Boston
Bowdlear Co., W. H., 73 Broad St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Innis, Speiden & Co., 46 Cliff St.
*Salomon & Bro., L. A., 216 Pearl St.
Smith & Nichols, 121 Maiden Lane
Utah, Soldier Summit
Wasatch Ozokerite Co.

Paint, Aluminium

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
R. I., Providence
U. S. Gutta Percha Paint Co.

Paint, Cement Floor

N. Y., New York City
Toch Bros., 320 Fifth Ave.

Paints, Acid Proof

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
Mass., Boston
Cabot, Inc., Samuel
Mich., Detroit
Trus-Con Laboratories
Mo., St. Louis
Certain-teed Products Corporation, 314 Broadway
N. Y., New York City
Barrett Co., 17 Battery Place
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Toch Bros., 320 Fifth Ave.
United States Varnish Co., 41 Park Row
Warren Chemical & Mfg. Co., 17 Battery Place
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
Glidden Varnish Co.
Sherwin-Williams Co.
Ohio, Warren
Goreen Mfg. Co., Main St.
Pa., Philadelphia
Flexible Compounds Co., 3607 Haverford Ave.
Barber Asphalt Paving Co.
French & Co., Samuel, H., 410 Callowhill St.
Wis., Milwaukee
Patton Paint Co., 213 Lake Ave.

Paints, Asbestos

Ill., Chicago
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.
N. J., Manville
Johns-Manville Co.
Ohio, Lockland
Carey Mfg. Co., Pnipp

Paints, Asphalt

Cal., San Francisco
Standard Oil Co.
Mo., St. Louis
Certain-teed Products Corporation
N. Y., New York City
Barrett Co.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Md., Baltimore
Interocean Oil Co.
N. Y., New York City
United States Asphalt Refining Co.
Toch Bros., 320 Fifth Ave.
Ohio, Cincinnati
Chatfield Mfg. Co., The

Paints, Chemical *(see Specific Headings)*

Paints, Cold Water

Mo., St. Louis
Reardon Glue Mfg. Co.

Paints, Elastic Enamel Black

Md., Baltimore
Bloede Co., Victor G., Station "D," Caton Ave.

Paints, Gold

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Paints, Luminous

N. Y., New York City
Toch Bros., 320 Fifth Ave.
Ohio, Cleveland
Sherwin-Williams Co., 601 Canal Road, N. W.

Paints, Metal

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Paints, Oil

N. Y., New York City
Bielenberg Co., A., 67-69 Front St.

Paints, Pegamoid Aluminium

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Paints, Refrigeration

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Tar

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mich., Detroit
Trun-Con Laboratories
Ohio, Cincinnati
Chatfield Mfg. Co., The

Paints, Technical

Mo., St. Louis
Dielectric Mfg. Co.
N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Water Proofing

Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Mich., Detroit
Trun-Con Laboratories
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
Toch Bros., 320 Fifth Ave.
N. Y., Syracuse
Semet-Solvay Co.

Palladium

N. J., Newark
Baker & Co., Inc., 54 Austin St.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Palo Co., 90 Maiden Lane
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Paper Filler (*see Filler, Paper*)

Paper, Test

N. Y., New York City
Squibb & Sons, E. R., 78-80 Beekman St.

Paraffine Wax (*see Wax, Paraffine*)

Paraldehyde

Canada, Montreal, P. Q.
Canadian Electro Products, Co., Ltd., 611 Power Bldg.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
N. Y., New York City
*Canada Carbide Sales Co., Inc., 30 Church St.
*Fairbanks, Morse Co., 30 Church St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Paraminophenol

Pa., Philadelphia
Harmer Laboratories Co.

Paranitracetanilid

N. Y., New York City
Chemical Co. of America, Inc., 176 Front St.

Paris Green

Mich., Detroit
Detroit White Lead Works
N. J., Newark
Cawley, Cark Co.
N. Y., New York City
Ausbacher Insecticide Co., Inc., 527 Fifth Ave
Blanchard, Co., J. A., 30 Church St.
Bristol Myers Co.
*Cooper & Cooper, 309 Broadway
Devoe Raynolds Co., Fulton St.
McKesson & Robbins, Inc., 91 Fulton St.
White Tar Co., The, 6 Cliff St.
Ohio, Cleveland
Sherwin-Williams Co.
R. I., Providence
*Lewis, John D.
Wis., Milwaukee
Corono Chemical Co.

Paris White

Cal., San Francisco
Paraffine Paint Co.
England, Liverpool
Brazendals & Co., 37 Leeds St.
Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Iowa, Fort Dodge
Plymouth Gypsum Co.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Salomon & Bro., L. A., 216 Pearl St.
Wash., Tacoma
Pacific Coast Gypsum Co.

Parlodion

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Par-O-Lac

N. Y., New York City
Hirsh & Schofield, Inc., 50 Broad St.

Paste

Mass., Framingham
Dennison Mfg. Co.
Arabol Mfg. Co., 100 Williams St.
National Gum & Mica Co.

Paste, Alcanin

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.

Paste, Alizarin Blue, 2 B.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Paste, Cold Water, Dry

Mo., St. Louis
Reardon Glue Mfg. Co.

Paste, Phosphoric Acid

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
R. I., Providence
Rumford Chemical Works

Paste, Waterproofing

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Pepsin

Ill., Chicago
Armour & Co., Union Stock Yards
Cudahy Packing Co., 111 W. Monroe St.
Md., Baltimore
Burroughs Bros. Mfg. Co.
Mich., Detroit
Digestive Ferments Co., 240 Henry St.
Parke, Davis & Co.
N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place

Peptone

Mich., Detroit
Digestive Ferments Co., 240 Henry St.

Perfumes Raw Materials

Ill., Chicago
Kirk & Co., J. S., 106 E. Michigan Ave.
Mass., Boston
Liggett Co., Louis K.
United Drug Co.
United Perfume Co.
N. J., Jersey City
Colgate & Co.
Seydel Mfg. Co.
N. Y., Buffalo
Larkin Co.
N. Y., Long Island City
American Druggists Syndicate
N. Y., Monticello
Synfleur Synthetic Laboratories
N. Y., New York City
Chiris, Antoine, Co., 20 Platt St.
Compagnie Morana, 184 Fifth Ave.
Dodge & Olcott Co., 87 Fulton St.
*Fuller & Co., Ralph L., 4 Rector St.
*Gross & Co., Geo. V., 30 Old Slip St.
*Heine & Co., 7 Platt St.
*Lathrop & Co., H. R., 116 Beekman St.
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
National Aniline & Chemical Co., 21 Burling Slip
*Pfaltz & Bauer, Inc., 300 Pearl St.
Plymouth Organic Laboratories, 65 Ann St.
*Rockhill & Vietor, 22 Cliff St.
Ungerer & Co., 273 Pearl St.
*Van Dyk & Co., 6 Platt St.
Ohio, Cincinnati
Jergens Co., Andrew, 2535 Spring Grove Ave.
Okla., Oklahoma City
Bowers & Co., O. C., 23 Rena Ave.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.
Wampole & Co., H. K., 428 Fairmount Ave.

Petroleum and Petroleum By-Products

Cal., Los Angeles
Mexican Petroleum Co.
Union Oil Co. of Cal., 215 W. 7th St.
Ill., Chicago
Consumers' Refining Co.
Sinclair Refining Co.
La., Crowley
Crowley Oil & Mineral Co.
Mo., St. Louis
Pierce Oil Corp., Olive and Broadway
N. Y., New York City
Indian Refining Co., 17 Battery Place
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Place
Tidewater Oil Co., 11 Broadway
Valvoline Oil Co., 11 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Ohio, Cleveland
National Refining Co., Rose Bldg.
Ohio, Toledo
Paragon Refining Co.
Sun Co., The
Okla., Muscogee
Muscogee Refining Co.
Okla., Okmulgee
American Refining Co.
Okla., Sapulpa
Sapulpa Refining Co.

Petroleum and Petroleum By-Products—*cont.*

Okla., Tulsa
Cosden & Co., Inc.
Empire Refineries, Inc., Unity Bldg.
Pa., Bradford
Emery Mfg. Co.
Pa., Oil City
Crystal Oil Works
Empire Oil Works
Germania Refining Co.
Independent Oil Refining Co., Ltd.
Pennsylvania Refining Co.
Pa., Philadelphia
Crew-Levick Co., 111 N. Broad St.
Pure Oil Co., Lafayette Bldg.
Union Petroleum Co., 135 S. 2d St.
Pa., Pittsburgh
Gulf Refining Co.
Waverly Oil Works Co., 54th St.
Pa., Warren
Pennsylvania Oil Products Refining Co.
Warren Refining Co.

Pharmaceutical Products (*see also Chemicals, Pharmaceutical*)

England, Oldham
Granville Wood & Co., Aschroft St.
Ill., Chicago
Abbott Laboratories, 4757 Ravenswood Ave.
Armour & Co., Union Stock Yards
Hollister-Wilson Laboratories
Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Mich., Detroit
Parke, Davis & Co.
Stearns & Co., Frederick
Mo., St. Louis
Lambert Chemical Co.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
Calco Chemical Co., Woolworth Bldg.
Edgertyn Aniline Corp., 118 William St.
National Gum & Mica Co., 59th St. and 11th Ave.
Rector Chemical Co., 2 Rector St.
Pa., Philadelphia
Mulford Co., H. K.

Phenacetin (*see Acetphenetidin*)

Phenenthrin

N. Y., New York City
Barrett Co., 17 Battery Place

Phenol

Conn., Stamford
American Synthetic Color Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Newark
American Synthetic Dyes, Inc.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Cresol Chemical Co., 10 Van Buren St.
N. Y., New York City
Aetna Explosives Co., Inc., 120 Broadway
*Alexander & Co., Inc., C. S., 61 Broadway
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., 17 Battery Place
Butterworth-Judson Co., 61 Broadway
Campbell & Co., John, 75 Hudson St.
Chemical Co. of America, Inc., 28 Platt St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
Edison International Corporation, 165 Broadway
Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Rector Chemical Co., 2 Rector St.
Southern Oil & Chemical Co., 15 Park Row
Stein, Hall & Co., Inc., 617 Broadway
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cincinnati
Chatfield Mfg. Co., The
Ohio, Youngstown
Youngstown Chemical Co.
Pa., Carnegie
Aetna Chemical Co.

Phenol—*cont.*

Pa., Easton
Baker & Adamson Chemical Co.
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.
United Gas Improvement Co.
R. I., Providence
*Lewis, John D., Turks Head Bldg.
Tenn., Chattanooga
Chattanooga Chemical Co., Inc.

Phenol, Indo

N. Y., New York City
Wright Chemical Corporation, 38 Park Row
Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Phenolic Condensation Products

N. J., Bloomfield
Condensite Co. of America

Phenolphthalein

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Merck & Co., 45 Park Place
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Schenectady
Organic Products Corp.
Ohio, Youngstown
Youngstown Chemical Co., Sycamore St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Pheno-Safranine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Phenylacetaldehyde

N. J., Bayonne
Standard Chemical Co., W. 5th St.
Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.

Phenyl Cyanide

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Phenylenediamine, Para

N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. Y., Brooklyn
Zobel Color Works, Inc., 95–127 Ninth St.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Chemical Co. of America, 176 Front St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Kley, Inc., 39 Cortland St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Edison International Corporation
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Phenyl-Ethyl Acetate

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Phenyl-Ethyl Alcohol

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Phenylhydrazine

N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Phenylhydrazine, Base and Hydrochloride

Pa., Philadelphia
Harmer Laboratories Co.

Phenylhydrazine Base, C. P.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Phenylhydrazine Hydrochloride

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Phenylhydrazine Hydrochloride C. P.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Phenyinaphthylamine, Alpha

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Phloridzine

Pa., Philadelphia
Harmer Laboratories Co.

Phosgene

Fla., Jacksonville
Florida Wood Products Co.
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Hemingway, Inc., Frank, 115 Broadway
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square

Phosphate Rock

Ark., Little Rock
Arkansas Fertilizer Co.
Fla., Lakeland
Lakeland Phosphate Co.
Fla., Pierce
Pierce Phosphate Co.
Ill., Chicago
Swift & Co., Union Stock Yards
Md., Baltimore
United States Fertilizer Co., Phoenix Bldg.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Cyanamid Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
International Agricultural Corp., 165 Broadway
Marden, Orth & Hastings Corp'n, 61 Broadway
Prairie Pebble Phosphate Co., 165 Broadway
Va., Richmond
Virginia-Carolina Chemical Co.

Phosphate of Soda (*see Sodium Phosphate*)

Phosphorus

Canada, Buckingham
Electric Reduction Co., Ltd.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Coignet Chemical Products Co., Inc., 17 State St.
Southern Oil & Chemical Co., 15 Park Row
*Takamine Commercial Corporation, 130 Broadway
*Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Niagara Falls
Oldbury Electro-Chemical Co.
Pa., Easton
*Baker & Adamson Chemical Co.
Pa., Philadelphia
American Phosphorus Co.
*Powers-Weightman-Rosengarten Co.

Phosphorus, Amorphous

N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Coignet Chemical Products Co., Inc., 17 State St.

Phosphorus Compounds

N. Y., New York City
Radium Luminous Material Corporation, 55 Liberty St.

Phosphorus Oxychloride

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Phosphorus Pentachloride

N. Y., New York City
Baker & Bro., H. J., 81 Fulton St.
General Chemical Co., 25 Broad St.

Phosphorus Pentoxide

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Phosphorus Sesquisulphide

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Coignet Chemical Products Co., Inc., 17 State St.
*Graham, Hinkley & Co., 135 Front St.

Phosphorus Trichloride

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Photographic Developers

Ind., Hammond
Western Aniline Products Co., Morton Court

Phthalic Anhydride

Cal., Berkeley
Catalytic Chemical Co., 3d and Bancroft Sts.
Mo., St. Louis
Monsanto Chemical Works, 2nd & La Fayette Ave.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar & Washington Sts.
Barrett Co., 17 Battery Place
Chemical Co. of America, 176 Front St.
Edgertyn Aniline Co., 118 William St.
Rector Chemical Co., 2 Rector St.
Ohio, Youngstown
Youngstown Chemical Co.
N. Y., Ossining
Ossining Chemical Works

Phthalimid

Ohio, Youngstown
Youngstown Chemical Co., Sycamore St.

Pigments (*see also Colors, Dry*)

D. C., Washington
American Rutile Co. 622 F St., N. W.
England, Essex, Loughton
▶ Madderton & Co., Ltd.
N. J., Patterson
Fine Colors Co., 21-29 McBride Ave.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
New Jersey Zinc Co., 55 Wall St.

Pine Tar (*see Tar, Pine*)

Pink, Direct Brilliant, B

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Pink, Direct Fast, R

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Pink, Direct, RX

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Pitch

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Southern Oil & Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
England, Liverpool
Brazendals & Co., 37 Leeds St.
La., New Orleans
American Turpentine & Tar Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Marden, Orth & Hastings Corp'n, 61 Broadway
United Naval Stores Co.
N. Y., Syracuse
Semet-Solvay Co.

Pitch, Stearine

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Lamson & Bro., John L., 80 Maiden Lane

Plaster of Paris (*see Paris White*)

Plastics and Elastics

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Chemical Co., 636 W. 22d St.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
General Bakelite Co., 2 Rector St.
Ohio, Akron
Goodyear Tire & Rubber Co.

Platinum

Ill., Chicago
*Goldsmith Bros. Smelting & Refining Co., Madison and Wabash Aves.
N. J., Newark
*American Platinum Works, 231 New Jersey R. R. Ave.
*Baker & Co., Inc., Murray and Austin Sts.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Baker & Co., Inc., 30 Church St.
Engelhard, Charles, 50 Church St.

Platinum—*cont.*

N. Y., New York City—cont.
U. S., Metal Refining Co., 42 Broadway
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Pa., Malvern
*Bishop & Co., J., Platinum Works
Pa., Philadelphia
Foote Mineral Co.

Platinum (Scrap)

Conn., Hartford
Ney Co., J. M.

Platinum Salts

Ill., Chicago
*Laboratory Materials Co., 640 E. 71st St.

Platinum Bichloride

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Plumbago

N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Dunn & Kruse, 53 Park Row
*Fuerst Bros. & Co., 2 Stone St.

Ponceau

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Potash (*see Potassium Carbonate and also Potassium Salts*)

Potassium

Mich., Menominee
*Michigan Electrochemical Co., N. State St.

Potassium Acetate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
*Merck & Co., 45 Park Place
*Squibb & Sons, R. E., 82 Beekman St.
Pa., Philadelphia
Powers-Weightmann-Rosengarten Co.
*Thomas Co., Arthur H., W. Washington Square

Potassium Acid Tartrate

Cal., San Francisco
California Wine Association
Tartar Chemical Co.
England, Accrington
Phoenix Chemical Co., Ltd., Jackson St., Church
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Stickney & Poor Spice Co., 184 State St.
N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.
N. Y., New York City
*Herrick-Voigt Chemical Corporation, 1 Liberty St.
Merck & Co., 45 Park Place
Pfizer & Co., Charles, Inc., 81 Maiden Lane
Tartar Chemical Co., 135 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Spain, Barcelona
Sociedad Anonima Monegal, Apartado Correos, No. 144

Potassium Alum (*see Potassium Aluminium Sulphate*)

Potassium Aluminate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.

Potassium Aluminium Sulphate

Cal., Berkeley
Pacific Guano and Fertilizer Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
England, Manchester
Spence & Sons, Ltd., Peter
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Antimoniate

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Potassium Antimonyl Tartrate (Tartar Emetic)

N. Y., New York City
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Potassium Bicarbonate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Halle-Perris Trading Corporation, 24 State St.
Innis, Speiden & Co., Inc., 46 Cliff St.
McKesson & Robbins, 91 Fulton St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Schieffelin & Co., 170 William St.
White Tar Co., 6 Cliff St.
Pa., Philadelphia
Cooper, T. G., & Co., 47–49 N. 2d St.
Powers-Weightman-Rosengarten Co.

Potassium Bicarbonate, Cryst. U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Bichromate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. J., Jersey City
Natural Products Refining Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Mutual Chemical Co. of America, 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Sons, E. R., 80 Beekman St.
Takamine Laboratory, Inc., 120 Broadway
White Tar Co., 6 Cliff St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Potassium Bioxalate

England, London
Berk & Co., Ltd., F. W., Fenchurch
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Katzenbach & Bullock Co., 100 William St.
Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bisilicate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Bisulphite

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bromate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.

Potassium Bromide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
*Huisking, Inc., Chas L., 5 Platt St.
National Aniline & Chemical Co., 21 Burling Slip
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Schenectady
Organic Products Corp., 469 State St.
Ohio, Pomeroy
Graclif Chemical Co.
W. Va., Malden
Dickinson Co., J. Q.

Potassium Carbonate

Cal., San Francisco
*Breslauer, A., 485 California St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, London
Berk & Co., Ltd., F. W., Fenchurch Ave.
*Dexters, Ltd., 362 City Road
Ill., Chicago
Armour Fertilizer Works
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., Jas. H., 153 W. Austin Ave.
N. J., Trenton
Utah Potash Co.
Nevada, Reno
Neo Mfg. Co., P. O. Box 672
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Freeman & Co., R. B., 96 Wall St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Kley, Inc., 39 Cortland St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
*Peters, White & Co., 55 John St.
Philip Bros., & Co., 29 Broadway
*Takamine Commercial Corporation, 120 Broadway
Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Potassium Chlorate

Cal., Pittsburgh
Great Western Electrochemical Co.
Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Mass., Boston
*Linder & Meyer, 89 State St.
Mich., Bay City
North American Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chemical Importing Mfg. Co., 90 West St.
Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Husking, Inc., Chas L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Monmouth Chemical Co., 106 Wall St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Suzuki & Co., 220 Broadway
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Rittman
Ohio Salt Co.
R. I., Providence
*Lewis, John D.

Potassium Chlorate, Crystals, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Chloride

Cal., Los Angeles
American Trona Corp.
Del., Wilmington
Hercules Powder Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Halle-Perris Trading Corporation, 24 State St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Pacific Coast Borax Co., 100 William St.
Utah, Burmester
Salt Lake Chemical Co.

Potassium Chromate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
*Klipstein, A., & Co., 644 Greenwich St.
*Merck & Co., 45 Park Place
*Squibb, E. R., & Sons 82 Beekman St.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.

Potassium Citrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Merck & Co., 45 Park Place
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Potassium Cyanide

Cal., San Francisco
*Breslauer, A., 485 California St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Mass., New Bedford
Davis Chemical Works, H. V.
Mo., St. Louis
Mallinckrodt Chemical Co., 3600 N. 2d St.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co.,45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Grasselli Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Ferricyanide (*see also Potassium Prussiate*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
*Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Ferrocyanide (*see also Potassium Prussiate*)

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda & Co. John C., 273 Greene St.
N. Y., New York City
Innis, Speiden & Co., Inc.. 46 Cliff St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Potassium Fluoride

Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Potassium Glycerophosphate

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Potassium Hydroxide

Cal., Los Angeles
*Bobrick Chemical Co., 111-117 S. Garey St.
England, London
Berk & Co., Ltd., F. W., Fenchurch Ave.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 54 W. Kinzie St.
Laboratory Materials Co., 640 E. 71st St.
Rhodes & Co., James H., 157 Austin Ave.
Neb., Omaha
Potash Products Co.
N. J., Camden
Mechling Bros. & Co.
N. Y., Albany
Mendleson's Sons, A.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar & Washington Sts.
*Baker & Bro., H. J., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.

Potassium Hydroxide—*cont.*

N. Y., New York City—con'.
Hoffman-LaRoche Chemical Works, 440 Washington St.
Hooker Electrochemical Co., 40 Wall St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Kley, Inc., 39 Cortland St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Works, 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.
N. Y., Niagara Falls
Niagara Alkali Co., Buffalo Ave. & Union St.
N. Y., Solvay
Solvay Process Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co. 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Potassium Hypochlorite

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Potassium Iodide

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Merck & Co., 45 Park Place
New York Quinine & Chemical Works, 114 William St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)
Takamine Laboratory, Inc., 120 Broadway

Potassium Metabisulphite

England, Wolverhampton
Bailey & Son, William

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Schering & Glatz, 150 Maiden Lane

Potassium Muriate (*see Potassium Chloride*)

Potassium Nitrate

Del., Wilmington
Du Pont de Nemours Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Thorkildsen-Mather Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Neb., Omaha
Potash Products Co.
N. J., Trenton
Utah Potash Co., The
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Baker & Bro., H. J., 81 Fulton St.
*Battelle & Renwick, 80 Maiden Lane
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
*Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Potassium Oxalate

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
Pa., Bradford
American Alkali & Acid Co.

Potassium Oxide

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Nebr., Omaha
Potash Products Co.
N. J., Trenton
Utah Potash Co.

Potassium Perchlorate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Permanganate

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
Ill., La Salle
Carus Chemical Co.
N. J., Perth Amboy
General Supply Co., Market St. & Bertrand Ave.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Analine Dyes & Chemicals, Inc., Cedar & Washington Sts.
*Baker Bro., H. J., 81 Fulton St.
Chemical Co. of America
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
*Huisking, Inc., Chas. L., 5 Platt St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
Takamine Laboratory, Inc., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Niagara Alkali Co., Buffalo Ave. & Union St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Potassium Peroxide

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-19 Forbes St.

Potassium Phosphate U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Prussiate (*see also Potassium Ferri- and Ferrocyanides*)

England, London
*Dexter's, Ltd., 362 City Road
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
Eissing Chemical Co. (Red), 225 5th Ave.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Roessler-Hasslacher Chemical Co., 100 William St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Potassium Prussiate, Red (*see Potassium Ferricyanide*)

Potassium Pyrosulphite

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Salts (*These companies recover Potassium Salts from various sources, natural and otherwise*)

Cal., Agnew
Western Industries Co.
Cal., Borosolvay
Solvay Process Co.
Cal., Chula Vista
Hercules Powder Co.
Cal., Long Beach
International Potash Products Co.
Cal., Los Angeles
National Kelp Products Co.
Pacific Products Co.
Sirch Electrical & Testing Laboratories
Cal., Owens Lake
California Alkali Co.
Cal., Pasadena
American Products Co.
Cal., Riverside
Riverside Portland Cement Co.
Cal., San Diego
Swift & Co.
Cal., Santa Cruz
Santa Cruz Portland Cement Co.
U. S. Dept. of Agric., Experimental Plant
Cal., Trona
American Trona Corp.
Cal., Wilmington
Diamond Match Co.
Canada, B. C., Queen Charlotte Islands
International Chemical Co.
Canada, Ontario, Gravenhurst
Canadian Potash Corp.
Ill., Chicago
Armour Fertilizer Works,

Potassium Salts—*cont.*

Md., Hagerstown
Security Cement & Lime Co.
Mo., St. Louis
Alunite Co. of America
Neb., Alliance
Potash Product Co.
Neb., Antioch
American Potash Co.
Nebraska Potash Works Co.
Neb., Hoffman
Potash Products Corp.
Neb., Lakeside
Hord Alkali Product Co.
Neb., Omaha
American Potash Co.
Neb., Sheridan Co.
Western Potash Co.
N. J., Trenton
Utah Potash Co.
N. Y., Buffalo
Buffalo Potash & Cement Corp.
N. Y., Jones Point
Kaolin Products Co.
N. Y., Mechanicville
Werner Extract Co.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
International Agricultural Corporation, 165 Broadway
Nitrate Agencies Co.
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)
Pa., Stockertown
Atlantic Potash Co.
Okla., Sand Springs
Mid Continent Chemical Co.
Tenn., Kingsport
Clinchfield Portland Cement Corp.
Utah, Marysville
Caraleigh Phosphate & Fertilizer Works
Utah, Salt Lake City
Utah Chemical Co.
Utah, St. Marysvale
Mineral Products Co.

Potassium Silicate

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Sulphate

Cal., Santa Cruz
Santa Cruz Portland Cement Co.
England, Accrington
Phoenix Chemical Co., Ltd., Jackson St. Church
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place

Potassium Sulphide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda & Co., John C.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Sulphite

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-19 Forbes St.

Potassium Sulphocyanide (*see Potassium Sulphocyanate*)

Potassium Sulphocyanate

Mo., t. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 80 Beekman St.

Potassium Sulphonate, Creosote

N. Y., New York City
Heyden Chemical Works, 135 William St.

Potassium Sulphonate, Guaiacol

N. Y., New York City
Heyden Chemical Works, 135 William St.

Powder, Blasting

N. Y., New York City
Rendrock Powder Co., 106 Wall St.

Powder Blue

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Powder, Putty

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Primuline

Mass., Boston
Jennings & Co., Inc., 93 Broad St.
N. J., Bound Brook
Peerless Color Co., Inc.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
N. Y., North Tonawanda
Synthetic Products Co.

Procaine

N. Y., New York City
Rector Chemical Co., Inc., 2 Rector St.

Prussian Blue (*see Blue, Prussian*)

Prussiate of Potash, Red (*see Potassium Ferricyanide*)

Prussiate of Potash, Yellow (*see Potassium Ferrocyanide*)

Prussiate of Soda, Red (*see Sodium Ferricyanide*)

Prussiate of Soda, Yellow (*see Sodium Ferrocyanide*)

Pulp Filter

N. Y., New York City
Schwenker, Inc., W. M., 340–344 E. 92d St.

Pulp Products

N. J., Trenton
Universal Fiber Co.

Pulp Sulphite

Me., Bangor
Eastern Mfg. Co.
Pa., Erie
Hammermill Paper Co.

Pumice Stone

Cal., Los Angeles
Pacific Mineral Products Co.
Ill., Chicago
American Pumice Co.
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., Brooklyn
*Guisseppe Ferlazzo Co.
*Miner, Thornton Co.
N. Y., New York City
*Chrystal, Chas. B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Waddell, R. J., & Co., 56 Beekman St.
*Whittaker, W. H., Co., 252 Front St.

Pumice Stone, Italian

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Purple, Copper

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Putty, Asphalt

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Putty Powder

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Pyrites

Cal., San Francisco
Mountain Copper Co., Ltd., 332 Pine St.
N. Y., Hermon
St. Lawrence Pyrites Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Butterworth Judson Corporation, 61 Broadway
Marden, Orth, Hastings Corp'n
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg.
Va., Norfolk
Royster Guano Co., F. S.
Va., Richmond
Va.-Carolina Chem. Co.

Pyrolusite (*see Manganese Dioxide*)

Pyroxylin Compounds

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Pyroxlin, Nitrocellulose Solution

Ohio, Cincinnati
*Fries & Fries, 1501–13 W. 6th St.

Pyroxylin, Special Solutions

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Pyridine

N. Y., New York City
Barrett Co., 17 Battery Pl.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia, Frankford
National Ammonia Co. of Pa., Del. Ave. & Van Kirk St.

Pyrozone

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Pyxol

N. Y., New York City
Barrett Co., 17 Battery Pl.

Quartz

Conn., New Milford
Bridgeport Wood Finishing Co.
Ill., Chicago
Rhodes & Co., Jas. H., 157 W. Austin Ave.
Md., Baltimore
Maryland Quartz Co., 10 E. Lexington St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
General Mineral Co., Inc., 157 Cedar St.
New England Quartz Co. of N. Y., 150 Nassau St.
Schaaf-Regelman, E., 220 Broadway
N. C., Penland
Carolina Mineral Co.
Pa., Philadelphia
Baeder, Adamson & Co., Richmond St. and Allegheny Ave.

Querbracho Extract (*see Extract Quebracho*)

Quercitron Extract (*see Extract Quercitron*)

Quercitron Solid

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Quicksilver (*see Mercury*)

Quinine

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Alexander & Co., Inc., C. D., 61 Broadway
*Echavarria & Co., R., 8 Bridge St.
New York Quinine & Chemical Works, Ltd., 100 William St.
Takamine Laboratory, Inc., 120 Broadway

Quinine Sulphate

N. Y., New York City
*Echavarria & Co., R., 8 Bridge St.
*Freeman & Co., R. B., 96 Wall St.

Radium

Colo., Denver
Colorado Radium Products Co.
Radium Co. of Colorado
Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.
Ill., Chicago
Carnotite Production Co.
N. Y., New York City
*Palo Co., 90–94 Maiden Lane
Radium Ltd., U. S. A., 2 W. 45th St.
Pa., Pittsburgh
Radium Chemical Co.
Standard Chemical Co., Vanadium Bldg.

Radium Bromide

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Radium Chloride

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Radium Ore

Colo., Montrose
Willmarth, O. Barlow, Keller Bldg.

Radium Salts

Colo., Denver
Colorado Radium Products Co.
Radium Co. of Colorado
Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.
Ill., Chicago
Carnotite Production Co.
N. Y., New York City
*Palo Co., 90–94 Maiden Lane
Radium Ltd., U. S. A., 2 W. 45th St.
Pa., Pittsburgh
Radium Chemical Co.
Radium Luminous Material Corporation, 55 Liberty St.
Standard Chemical Co., Vanadium Bldg.

Reagents, Chemical (*see Chemicals, Laboratory*)

Realgar (*see Arsenic Sulphide*)

Red, Alizarine S.

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Red, Congo

N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. Y., New York City
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Pa., Philadelphia
Harmer Laboratories Co.

Red Congo, 4B

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Red, Chrome

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Red, Direct Imperial

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Red, Direct Salmon

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Red, Fast A

N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.

Red, Indian

N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Red, Lithol R

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Red, Methyl

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Red, Neutral

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Red, Para

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
N. Y., Glen Falls
Imperial Color Works, Inc., Warren St.

Red, Toluylene

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Red, Venetian

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Redmanol

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Residuum

Cal., Los Angeles
General Petroleum Corp.
Union Oil Co. of California
Ohio, Toledo
Paragon Refining Co.
Texas, Mineral Wells.
Texas Carlsbad Water Co.

Resinates

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Scheel, Wm. H., 159 Maiden Lane
*Tennant C., Sons & Co., 100 William St.
Toch Bros., 330 5th Ave.
Tenn., Sweetwater
Durex Chemical Works

Resinoids

N. Y., New York City
McKesson & Robbins, 91 Fulton St.
Sharp & Dohme
Pa., Philadelphia
Hance Bros. & White, 621 Callowhill St.

Resins

N. Y., Norwich
Norwich Pharmacal Co.

Resins, Jalap

N. Y., Norwich
Norwich Pharmacal Co.

Resins, Paracumaron

N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Resins, Scammony

N. Y., Norwich
Norwich Pharmacal Co.

Resorcin

Conn., Stamford
American Synthetic Color Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Bound Brook
American Chemical Products Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Aetna Explosives Co., 120 Broadway
Analine Dyes & Chemicals, Inc., Cedar and Washington Sts.
Barrett Co., The, 17 Battery Pl.
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Republic Trading Co., 80 South St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Fries & Fries, 121 W. 3rd St.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Harmer Laboratories Co.

Resorcinol (*see Resorcin*)

Rhodamines

N. Y., Monticello
Mont Color & Chemical Co.

Rhodinol

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Rhodium Chloride

N. J., Newark
American Platinum Works, 225-231 New Jersey R. R. Ave.

Rhotanium

N. Y., New York City
*Palo Co., 90-94 Maiden Lane

Rochelle Salts (*see Sodium Potassium Tartrate*)

Rock Crystal

N. Y., New York City
*Diamond Drill Carbon Co., 53-63 Park Row

Rock Crystal, Brazilian

N. Y., New York City
*Diamond Drill Carbon Co., 53-63 Park Row

Rosaniline Base

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Rosaniline Hydrochloride

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.
Pa., Philadelphia
Harmer Laboratories Co.

Rosin

Ala., Mobile
Taylor, Loewenstein & Co.
Cal., San Francisco
*Breslauer, A., 485 California St.
Horstman, John Co., 685 Bryant Ave.
Fla., Jacksonville
Peninsular Naval Stores Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
Producers Naval Stores Co.
Standard Naval Stores Co.
Antwerp Naval Stores Co.
London & Savannah Naval Stores Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ky., Louisville
Standard Oil Co.
La., Elizabeth
Producers Turpentine Co.
La., New Orleans
American Turpentine & Tar Co.
Union Naval Stores Co., Whitney Bldg.
Md., Baltimore
*Webb & Sons, A. L., 115 E. Lombard St.
Mich., Menominee
*Michigan Electrochemical Co., N. State St.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Edgertyn Aniline Corp., 118 William St.
General Naval Stores Co., 90 West St.
*Klipstein & Co., A., 644 Greenwich St.
United Naval Stores Co., 130 Pearl St.
N. C., Wilmington
National Wood Products Co.
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Texas, New Willard
New Willard Naval Stores Co.
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Rosin, Hardening Powder for

Pa., Philadelphia
Meyer & Sons. J., 480 Bourse Bldg.

Rosin, Powdered

N. Y., New York City
*Blanchard, J. A., Co., 30 Church St.
*Hillier's, R., Son & Co., 100 William St.
Pa., Philadelphia
*McIlvaine Bros., 1500 Hamilton St.

Rosin Size

Ga., Savannah
National Rosin Oil & Size Co.
Mich., Kalamazoo
Western Paper Makers Chemical Co.
La., New Orleans
American Turpentine & Tar Co.
N. Y., New York City
*Scheel, Wm. H., 159 Maiden Lane

Rosin Size, Soluble

N. Y., New York City
Arabol Mfg. Co., 100 William St.

Rosin, Soap

Ga., Savannah
National Rosin Oil & Size Co.
N. Y., New York City
Blanchard, J. A., & Co., 30 Church St.

Rosophenine, S. G.

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Rubber Cement (*see Cement, Rubber*)

Rubber, Crude

Cal., San Francisco
Moore, Geo. A., & Co., 212 California Ave.
Mich., Detroit
Mexican Crude Rubber Co., Penobscot Bldg.
N. Y., New York City
*Amsinck, G., & Co., Inc.
*Arnold & Zeiss, 277 Broadway
General Rubber Co., Broadway and 58th St.
*Gough, Wallace L., Co., 10 Bridge St.
*Hagemeyer & Brunn, Produce Exchange
*Marquardt & Co., H., Inc., 35 S. William St.
*Maurer, Edw., 80 Maiden Lane
*Mecke & Co., 24 State St.
*Meyer & Brown, 35 S. William St.
Rubber Trading Co., 38 Murray St.
*Sembrada & Co., J. S., 129 Front St.
Stein. Hall & Co., Inc., 61 Broadway
Pa., E ie
Continental Rubber Works

Rubber, Hard

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Mass., Andover
Tyer Rubber Co.
Mass., N. Brookfield
Quabang Rubber Co:
N. J., Newark
Rubber & Celluloid Products Co., 56 Ferry St.
N. J., Trenton
Luzerne Rubber Co.
Stokes, Jos., Rubber Co.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
U. S. Rubber Co., Broadway
Vulcanized Rubber Co., 251 4th Ave.
Ohio, Akron
Faultl ss Rubber Co.
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Ohio, Cleveland
Consumers' Rubber Co., 829 Superior Ave., N. W.
R. I., Providence
Davol Rubber Co.
Wis., Milwaukee
Federal Rubber Co.

Ruthenium Chloride

N. J., Newark
American Platinum Works, 225-231 New Jersey R. R. Ave.

Rutile (*see Titanium Dioxide*)

Saccharin

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ill., La Salle
Carus Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 S. 2d St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Newark
Verona Chemical Co.
N. Y., Brooklyn
Fahlberg Saccharine Works of America
Zobel Color Works, Inc., 95-127 Ninth St.
N. Y., New York City
American Condiments Co., 44 Vesey St.
*Baker & Bro., H. J., 81 Baker St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp.. 118 William St.
*Freeman & Co., R. B., 96 Wall St.
Fuller & Co., Ralph I., 4 Rector
Hoffman-La Roche Chemical Works, 440 Washington St.

Saccharin—*cont.*

N. Y., New York City—cont.
Merck & Co., 45 Park Place
Southern Oil & Chemical Co., 15 Park Row
N. Y., Schenectady
Organic Products Corp., 469 State St.
N. Y., Ossining
Ossining Chemical Works
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Saccharin Crystals

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Saccharin, Insoluble

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Saccharin, Soluble

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Safranine

N. Y., New York City
Reliance Aniline & Chemical Co., 299 Broadway
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Salacin

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Sal Ammoniac (*see Ammonium Chlorids*)

Salicyl Aldehyde

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Salol

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Southern Oil & Chemical Co., 15 Park Row
*Wood, Inc., J. Early, 21 Platt St.

Sal Soda (*see Sodium Carbonate*)

Salt, Bayer 2:8

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Salt Cake (*see Sodium Bisulphate*)

Salt Crystals, Schlippe's

Conn., Naugatuck
Naugatuck Chemical Co.

Salt, Effervescent

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Salt, G

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Salt, R

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Salt, R 2:3:6

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Salts, Iron Scale

N. Y., New York City
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Salt, Schaeffer's

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Ohio, Cleveland
Sherwin-Williams Co.

Salts, Soldering

Ill., Chicago
Allen Co., L. B., 4545 N. Lincoln Ave.
Chicago Solder Co., 218 N. Union St.
Mass., Boston
Ashley, F. C., & Co., 683 Atlantic Ave.
Mo., St. Louis
Corliss Supply Co., 1906 Olive St.

Saltpetre (*see Potassium Nitrate*)

Saltpetre, Chili (*see Sodium Nitrate*)

Sand, Glass Makers

Ill., Chicago
U. S. Silica Co., 122 S. Michigan Bldg.
Ind., Coxville
Acme Glass Sand Co.
Md., Hancock
Pennsylvania Glass Sand Co.
Mich., Detroit
American Silica Co., Dime Bank Bldg.
Mo., Pacific
Pacific Glass Sand Co.
N. J., Bridgeton
Crystal Sand Co.
N. Y., Buffalo
Oneida Lime Co., Ltd., Peoples Bank Bldg.
Ohio, Niles
National Sand & Stone Co.
Ohio, Toledo
Toledo-Owens Glass Sand Co.
Toledo Stone & Glass Sand Co.
Pa., Pittsburgh
Pennsylvania Glass Sand Co.
Pittsburgh White Sand Co., Farmers Bank Bldg.
Wash., Seattle
Spokane Silica Co.

Sand, Quartz Filtration

Ill., Chicago
United States Silica Co., 122 S. Michigan Ave.

Scarlets, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Scarlet, Chrome

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Scarlet, Chrome, Y

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Scarlet, Direct

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Scarlet, Direct Fast

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Scarlet, Direct Fast, Y

Pa., Reading
Althouse Chemical Co., 500-40 Pear St.

Scarlet, Direct Liberty

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Scarlet, Double Brilliant

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The,

Scarlets, Newark

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, Ponceau

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, 2 R.N.

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Selenium

N. J., Jersey City
Import Chemical Co., 162 First St.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Nichols Copper Co., 25 Broad St.
U. S. Metal Refining Co., 42 Broadway
U. S. Smelting, Refining & Mining Co., Inc., 120 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Serums (*see Chemicals, Pharmaceutical*)

Shellac

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.
Mich., Detroit
Berry Bros., Inc.
Detroit White Lead Works, 560 Milwaukee Ave.

Shellac—*cont.*

N. J., Newark
Murphy Varnish Co.
N. Y., New York City
Edison International Corporation, 165 Broadway
Longman & Martinez, 207 Pearl St.
*Marx & Rawolle, 100 William St.
Mitsui & Co.; Ltd., 65 Broadway
Rogers-Pyatt Shellac Co., 81 Water St.
Standard Varnish Works, 10 West St.
U. S. Industrial Alcohol Co., 27 William St.
Pa., Philadelphia
Felton Sibley & Co., 136 N. 4th St.

Silex

N. J., Lincoln
Atlas Mineral Products Co.
N. J., Trenton
Eureka Flint & Spar Co.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
New England Quartz Co., 150 Nassau St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Salomon & Bro., L. A., 216 Pearl St.
Ohio, Cleveland
Grassell Chemical Co.
Pa., Philadelphia
Paxson Co.

Silica

Cal., Los Angeles
Pacific Mineral Products Co.
Cal., San Francisco
Dill-Crosett, Inc., Postal Telegraph Bldg.
Ill., Chicago
Cudahy Packing Co., 111 W. Monroe St.
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 Austin Ave.
United States Silica Co., 410 Peoples Gas Bldg.
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Trenton
Utah Potash Co., The
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
International Pulp Co., 41 Park Row
*Innis, Speiden & Co., Inc., 46 Cliff St.
Southern Oil & Chemical Co., 15 Park Row
Talc Products Co., 11 Pine St.
Pa., Philadelphia
Harbison Walker Refractories Co., Farmers Bank Bldg.

Silica, Crystal

Ill., Chicago
United States Silica Co., 122 S. Michigan Ave.

Silica, Flint

Ill., Chicago
United States Silica Co., 122 S. Michigan Ave.

Silica Gel

Md., Baltimore
Davison Chemical Co., Garrett Bldg.

Silicon

Cal., San Francisco
Noble Electric Steel Co., Hewes Bldg.
Ky., Ashland
Ashland Iron & Mining Co.
Mo., St. Louis
Midvale Mining & Mfg. Co.
N. Y., New York City
U. S. Alloys Corp., 30 E. 42d St.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Jackson
Globe Iron Co.
Pa., Pittsburgh
Carnegie Steel Co.

Silicon Carbide

Mass., Boston
Richards & Co., Inc., 200 Causeway St.
Mass., Cambridge
Exlon Co., The, 156 Sixth St.
N. Y., Lockport
Electric Smelting & Aluminum Corp.
N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Silicon Dioxide (*see Silica*)

Silicon Sulphate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Silk, Artificial

N. Y., New York City
Campbell, Metzger & acobson, 923 Broadway
Hirsch Sons, G., 890 Broadway
Ohio, Cleveland
Cleveland Art Silk Co.
Pa., Marcus Hook
American Viscose Co.

Sil-O-Cel
N. Y., New York City
Celite Products Co.

Silver
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting, Refining & Mining Co., 120 Broadway

Silver Bromide
N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Chloride
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
Heyden Chemical Works, 135 William St.
*Merck & Co., 45 Park Place

Silver Cyanide
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Heyden Chemical Works, 135 William St.

Silver Iodide
N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Lactate
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Silver Nitrate
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Glen Falls
Ames Chemical Works
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Co., 440 Washington St.
Merck & Co., 45 Park Pl.
Powers-Weightman-Rosengarten Co.
Southern Oil & Chemical Co., 15 Park Row

Silver Nitrate, C. P.
N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.

Silver Oxide, C. P.
N. Y., New York City
Co per & Co., Charles, 194 Worth St.

Silver Sulphuret
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Size, Wall Paper-P
N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Sizing, Glasgow
N. J., Passaic
Wolf & Co., Jacques, 342 Lexington Ave.

Sizings, All Kinds
Md., Baltimore
Bloede, Victor G., Co.
Mass., Boston
Feculose Co., 293 Atlantic Ave.
Mich., Huron
Huron Milling Co.
N. J., Harrison
National Oil Products Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
Sizing's Specialties Co., Inc.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Corn Products Refining Co., 17 Battery Pl.
Edgertyn Aniline Corp., 118 William St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
*Innis, Speiden & Co., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Malt Diatase Co., 79 Wall St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Sizings, Paper
Mass., Ayer
Feculose Co. of America

Sizings, Textile
Mass., Ayer
Feculose Co. of America
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.

Slate, Granulations
N. J., Lincoln
Atlas Mineral Products Co.

Soap Makers' Raw Materials

Ill., Chicago
Armour & Co.
Cudahy Packing Co., 111 W. Monroe St.
*Daigger & Co., A., 54 W. Kinzie St.
Standard Oil Co.
Swift & Co.
Wilson & Co.
N. J., Harrison
National Oil Products Co.
N. Y., New York City
American Cotton Oil Co., 27 Beaver St.
Arabol Mfg. Co.
*Chi is, Antoine, Co., 20 Platt St.
*Compagnie Morana, 184 Fifth Ave.
*Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
*Gross & Co., Geo. V., 30 Old Slip Ave.
*Heine & Co., 9 Platt St.
*L eders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Pacific Coast Borax Co., 100 William St.
Plymouth Organic Laboratories, 65 Ann St.
*Rockhill & Vietor, 22 Cliff St.
*Ungerer & Co., 273 Pearl St.
*Van Dyk & Co., 6 Platt St.
R. I., Woonsocket
Standard Soap Mfg. Co.

Soap, Monoline

Mass., Atlantic
Bosson & Lane

Soapstone

Cal., Los Angeles
Pacific Mineral Pro lucts Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Eastern Talc Co.
N. J., Lincoln
Atlas Minera' Products Co., The
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Baker, H. J., & Bro., 100 William St.
*Binney & Smith Co., 81 Fulton St.
Talc Products Co., 11 Pine St.
Pa., Easton
Williams & Co., C. K.
Pa., Philadelphia
Paxson Co.
Tenn., Chattanooga
American Lava Co.

Soap, Tetrelyn

Mass., Atlantic
Bosson & Lane

Soda (*see Sodium Carbonate*)

Soda Ash (*see Sodium Carbonate*)

Soda, Caustic (*see Sodium Hydroxide*)

Sodas, Modified (So-called Neutral Sodas)

N. Y., Syracuse
Solvay Process Co.

Soda, Sulphuret (*see Sodium Sulphide*)

Sodium Acetate

Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
Mich., Detroit
Charcoal Co. of America
Mo., St. Louis
Mallinckrodt Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Chemical Co. of America, Inc., 176 Front St
Edgertyn Aniline Corp., 118 William St.
Edison International Corporation, 165 Broadway
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation. 24 State St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
R. I., Providence
*Lewis, John D.

Sodium Acid Sulphate (*see Sodium Bisulphate*)

Sodium Acid Sulphite (*see Sodium Bisulphite*)

Sodium Alizarine Monosulphonate

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Sodium Aluminate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Toch Bros., 320 5th Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Aluminium Sulphate

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.
N. Y., New York City
General Chemical Co., 25 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
Kalbfleisch Corporation, 31 W. Union Square
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Antimoniate

Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Sodium Arsenate

Mass., Boston
Shaw, Jno., & Co.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Chipman Chemical Engineering Co., Inc., 95 Liberty St.
*Hemingway, Inc., Frank, 115 Broadway
Vreeland Chemical Co., 50 Church St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Benzoate

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Halliday Sts.
N. J., Ridgefield Park
British-American Chemical Co., Inc.
N. J., Newark
Stuart & Co., C. H.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Chromos Chemical Co., Inc., Aeolian Hall
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Florasynth Laboratories, Inc., 231 Pearl St.
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Rector Chemical Co., Inc., 2 Rector St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Niagara Alkali Co.
Ohio, Sandusky
Hord Color Products Co., The, S. Columbia Ave.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Sodium Bicarbonate

Cal., San Francisco
Stauffer Chemical Co.
*Breslauer, A., 485 California St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Victor Chemical Works, 1810 Fisher Bldg.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. & B. & O. R. R.
Thomsen Chemical Co., Race and Winder Sts.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
Mo., St. Louis
Lambert Chemical Co.
Mallinckrodt Chemical Works
Neb., Omaha
Standard Chemical Mfg. Co., 1312 Harney St.

Sodium Bicarbonate—*cont.*

N. Y., Brooklyn
*Wiarda & Co., John, 273 Green St.
N. Y., New York City
Church & Dwight Co., 27 Cedar St.
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Nitrate Agencies Co., 102 Pearl St.
Squibb & Sons, R. E., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
American Chemical Co.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Tomson & Co., P. C., 1124 Girard Ave.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Va., Saltville
Mathieson Alkali Works, Inc., The

Sodium Bichromate

Cal., San Francisco
Dill-Crosett, Inc., Postal Telegraph Bldg.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Bloede Co., Victor G.
*Maryland Chemical Co., Columbia Ave. & B. & O. R. R.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mass., Worcester
Brewer & Co.
N. J., Jersey City
Natural Products Refining Co., 902-910 Garfield Ave.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar & Washington St.
*Baker & Bro., H. J., 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Franco-American Chemical Co., Inc., 8 Gold St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalbfleisch Corp., 31 Union Square, W.
Kalle & Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Mutual Chemical Co. of America, 55 John St.
*Nitrate Agencies Co., 102 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Sherwin-Williams Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Foote Mineral Co., Inc., 120 N. 9th St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D., 1209 Turks Head Bldg.

Sodium Bifluoride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
General Chemical Co., 25 Broad St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Sodium Bismuthate

N. Y., New York City
Holz, Herman A., 50 Church St.

Sodium Bisulphate

Colo., Denver
Western Chemical Mfg. Co., S. Osage & W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
New Jersey Zinc Co., 160 Front St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.

Sodium Bisulphate—*cont.*

Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Road

Sodium Bisulphite

Conn., Naugatuck
Naugatuck Chemical Co.
England, Wolverhampton
Bailey & Sons, William
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Merrimac Chemical Co., 32 Broad St.
Mass, Worcester
Brewer & Co.
Mo., St. Louis
Monsanto Chemical Works, 2nd St. & LaFayette Ave.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co, 25 Broad St.
Holliday, Read & Sons, 160 Franklin St
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co, A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Williamson & Co., D. D., 86 Fulton St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Borate (*see Sodium Tetraborate*)

Sodium Bromate

Mich., Midland
Midland Chemical Co.

Sodium Bromide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Maywood
American Bromine Co.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Heyden Chemical Works, 135 William St.
National Aniline & Chemical Co., 21 Burling Slip
N. Y., Schenectady
Organic Products Corp., 469 State St.
Ohio, Pomeroy
Graclif Chemical Co.
W. Va., Malden
Dickinson Co., J. Q.

Sodium Butyrate

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Sodium Cacodylate

Ill., Chicago
Abbott Laboratories
N. Y., New York City
*Fougera, E. & Co., 90-92 Beekman St.

Sodium Carbolate

Mass., Atlantic
Bosson & Lane

Sodium Carbonate

Cal., San Francisco
California Alkali Co.
*Breslauer, A., 485 California St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Cudahy Packing Co., 111 W. Monroe St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Morton Salt Co., 80 E. Jackson Blvd.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. &. O. R. R
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrmac Chemical Co., 32 Broad St.
Mass., Worcester
Brewer & Co.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
Mich., Menominee
*Michigan Electro Chemical Co., N. State St.
N. J., Camden
Mechling Bros. Mfg. Co.

Sodium Carbonate—*cont.*

N. J., Jersey City
Seydel Mfg. Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalbfleisch Corp., 31 Union Square, W.
*Kley, Inc., 39 Cortlandt St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth, Hastings Corp'n, 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Schell Chemical Co., Inc., 56 Pine St.
*Takamine Commercial Corporation, 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
Thompson, Sons & Co., John L.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Cincinnati
American Chemical Co.
Pa., Pittsburgh
Diamond Alkali Co., First Nat. Bank Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Va., Saltville
Mathieson Alkali Co., Inc.

Sodium Chlorate

Cal., San Francisco
Great Western Electro Chemical Co.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Mich., Bay City
North American Chemical Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Edgertyn Aniline Corporation, 118 William St.
Industrial Chemical Co., 200 Fifth Ave.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
*Lewis, John D., Turks Head Bldg.

Sodium Chloride, Pure, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Independent Salt Co., 44 Whitehall St.

Sodium Chloride

Ill., Chicago
Morton Salt Co.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
N. Y., Glen Falls
Ames Chemical Works
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Heyden Chemical Works, 135 William St.
Independent Salt Co., 44 Whitehall St.
*Pfizer & Co., Charles, 81 Maiden Lane
*Schwenker, Inc., W. M., 342 E. 92nd St.
*Wing & Evans, 22 William St.
N.Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Chromate

N. Y., New York City
Mutual Chemical Co. of America, 55 John St.

Sodium Citrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Pfizer & Co., Inc., Chas., 81 Maiden Lane
Squibb & Sons, R. E., 80 Beekman St.

Sodium Cyanide

Cal., San Francisco
*Breslauer, A., 485 California St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
N. Y., New York City
American Cyanamid Co., 511 5th Ave.
*Baker & Co., H. J., 81 Fulton St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., Inc.

Sodium Ferricyanide (*see also Sodium Prussiate*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Marden, Orth & Hastings Co., Inc., 61 Broadway
*Klipstein & Co., A., 644 Greenwich St.
N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry
W. Va., Saltville
Mathieson Alkali Works, Inc.

Sodium Ferrocyanide (*see also Sodium Prussiate*)

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
N. Y., New York City
Innis, Speiden & Co., Inc., 46 Cliff St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry
R. I., Providence
Arnold, Hoffman & Co., Inc.
W. Va., Saltville
Mathieson Alkali Works, Inc.
Wash., Seattle
Seattle Lighting Co.

Sodium Fluoride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Sodium Fluosilicate

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Md., Baltimore
Davison Chemical Co., Garrett Bldg.
N. J., Jersey City
Import Chemical Co., 162 First St.
N. Y., New York City
Franco-American Chemical Co., Inc., 8 Gold St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Pa., Philadelphia
Baugh & Sons Co.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
Ohio, Cle eland
Harshaw, Fuller & Goodwin Co.

Sodium Formate

N. Y., New York City
General Chemical Co., 25 Broad St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
*Klipstein & Co., A., 644 Greenwich St.
N. Y., Syracuse
Rosebrugh Chemical Corporation, 1618 N. Salina St.

Sodium Glycerophosphate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works
N. Y., New York City
Cooper & Co., Charles., 194 Worth St.
Merck & Co., 45 Park Place

Sodium Gold Chloride

N. Y., Glens Falls
Ames Chemical Works
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Squibb & Sons, R. E., 80 Beekman St.

Sodium Hydroxide

Cal., San Francisco
*Breslauer, A., 485 California St.
Great Western Electrochemical Co.
England, London
*Dexters, Ltd., 362 City Road
England, Smithy Bridg, near Rochdale
Dearhead Chemical Co.
Ill., Chicago
Columbia Chemical Works of Chicago, 220 W. Huron St.
*Daigger & Co., A., 52-46 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
Me., Bangor
Eastern Mfg. Co.
Maine, Portland
Electron Chemical Co., 534 Congress St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
Mich., Menominee
Michigan Electro Chemical Co., N. State St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Lambert Chemical Co.
N. J., Jersey City
Seydel Mfg. Co.
N. Y., Albany
*Wander & Son Chemical Co. S., 135 Church St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Burroughs & Co., Jas. S., 56 Pine St.
Butterworth-Judson Corp., 61 Broadway
*Campbell, C. W., 11 Cliff St.
Castner Electrolytic Alkali Co., 120 Broadway
Cooper & Co., Charles, 194 Worth St.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Hellenic Chemical & Color Co., Inc., 1 Cedar St.
Hooker Electrochemical Co., 40 Wall St.
*Independent Chemical Co., 122 West St.
Industrial Chemical Co., 200 Fifth Ave.
*Innis, Speiden & Co., Inc., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Kley, Inc., 39 Cortlandt St.
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
*Nitrate Agencies Co., 102 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schell Chemical Co., Inc., 56 Pine St.
Southern Oil & Chemical Co., 15 Park Row
*Takamine Commercial Corporation, 120 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
*Williamson & Co., 120 Broadway
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Castner Electrolytic Alkali Co.
Niagara Alkali Co., Buffalo Ave. and Union St.
Niagara Smelting Corp.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.
Ohio, Cleveland
Clark Co., Fred G., 1099 W. 11th St.,
Grasselli Chemical Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Dill & Collins Co., Richmond and Tioga Sts.
*Fergusson Bros., 109 Chestnut St.
Hollingsworth & Peterson, Lafayette Bldg.
Penn Chemical Works, 1322 Washington Ave.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pa., Pittsburgh
Columbia Chemical Co.
Diamond Alkali Co.
Republic Chemical Co., Inc., P. O. Box 946
Republic Chemical Co. (Coraopolis)

Sodium Hydroxide—*cont.*

R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D., 1209 Turks Head Bldg.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
Va., Saltville
Mathieson Alkali Works, Inc., The
W. Va., Charleston
Rollin Chemical Co., Inc.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square
Tenn., Kingsport
Union Dye & Chemical Corporation

Sodium Hypochlorite

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Hooker Electrochemical Co., 40 Wall St.
Warner Chemical Co., 52 Vanderbilt Ave.
Woolf Laboratories, 230 Greenwich St.
N. Y., Niagara Falls
Niagara Alkali Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Wis., Madison
General Laboratories

Sodium Hypophosphite

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Hyposulphite (*see Sodium Thiosulphate*)

Sodium Iodide

Mass., Boston
Merrimac Chemical Co., 148 State St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Sodium Methylarsenate

N. Y., New York City
*Fougera & Co., E., 90–92 Beekman St.

Sodium Naphthaline Beta Sulphonate

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Sodium Naphthionate

Ill., Quincy
Monroe Color & Chemical Co.
N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway

Sodium Nitrate

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ga., Savannah
Alexander & Co., Inc., G. S.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
La., New Orleans
New Orleans Acid & Fertilizer Co., Gretna Lane
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Buffalo Fertilizer Works, Marine National Bank Bldg.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Baker & Bro., H. J., 81 Fulton St.
Balfour, Williamson Co., 43 Exchange Place

Sodium Nitrate—*cont.*

N. Y., New York City—cont.
Burroughs & Co., Jas. S., 56 Pine St.
Cooper & Co., Charles H., 194 Worth St
*Grace & Co., W. R., 1 Hanover Square
*Hemingway, Inc., Frank, 115 Broadway
Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Knowles-Bradley Co., 88 Wall St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Rector Chemical Co., 2 Rector St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Wessel, Duval & Co., 25 Broad St.
*Taylor Commission Co., Geo. F., 80 Pine St.
N. Y., Chauncey, Westchester Co.
Stauffer Chemical Co.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Va., Norfolk
Royster Chemical Works
Va., Richmond
Virginia-Caroline Chemical Co.
Wash., Seattle
American Nitrogen Products Co.

Sodium Nitrate, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sodium Nitrite

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
General Chemical Co., 25 Broad St.
Heller & Merz, 503 Hudson St.
*Herrick-Voigt Chemical Corporation, 1 Liberty St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
*Tennant, C., Sons & Co., 100 William St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
R. I., Providence
*Lewis, John D.

Sodium Nitroprusside

Pa., Philadelphia
Harmer Laboratories Co., 1701 Market St.

Sodium Oxalate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Pa., Bradford
American Alkali & Acid Co.

Sodium Perborate

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Kalle Color & Chemical Co., 530 Canal St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.

Sodium Permanganate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Schapper Chemical Co., 192 N. Clark St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.

Sodium Peroxide

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

Sodium Peroxide—*cont.*

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Edgertyn Aniline Corp., 118 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Mitsui & Co., Ltd., 65 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.

Sodium Phosphate

England, Manchester
Victors, Ltd., Victoria Bldg.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Minn., Minneapolis
Columbia Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
Provident Chemical Works, 8011 Idaho Ave.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Bowker Chemical Co., 60 Trinity Place
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broadway
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Pittsburgh
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Potassium Tartrate

England, Accrington
Phoenix Chemical Co., Ltd., Jackson St. Church
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
National Aniline Chemical Co., Inc., 21 Burling Slip
Southern Oil & Chemical Co., 15 Park Row
Ohio, Cleveland
Harshaw, Fuller and Goodwin Co.

Sodium Prussiate (*see also Sodium Ferri- and Ferrocyanides*)

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Oregon, Portland
Portland Gas & Coke Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Sodium Pyrophosphates

England, Manchester
Victors, Ltd., Victoria Bldg.
N. Y., New York City
General Chemical Co., 25 Broad St.

Sodium Resinate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Sodium Salicylate

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
*Baker & Co., H. J., 81 Fulton St.
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
N. Y., Syracuse
Semet-Solvay Co.

Sodium Selenite

N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Drakenfeld & Co., Inc., 50 Murray St.
Franco-American Chemical Co., 8 Gold St.
U. S. Smelting, Refining & Mining Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.

Sodium Sesquicarbonate

N. Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Grasselli Chemical Co.

Sodium Silicate

Cal., Los Angeles
*Bobrick Chemical Co., 111-117 S. Garey St.
Ill., East St. Louis
Illinois Mineral Mining Co.
Ill., Chicago
Central Commercial Co.
*Daigger & Co., A., 54 W. Kinzie St.
Merchants Chemical Co., 7 S. Dearborn St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Richards & Co., Inc., 200 Causeway St.
Mo., St. Louis
Whitelaw Bros. Chemical Co.
N. J., Camden
Mechling Bros. Mfg. Co.
N. J., Trenton
Utah Potash Co.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
Cooper & Co , Charles, 194 Worth St.
*Cooper & Cooper, 309 Broadway
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
Kalbfleisch Corp., 31 Union Square, W.
*Marell Chemical Co., Inc., 25 Beaver St.
Merck & Co., 45 Park Place
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Philadelphia Quartz Co., 121 S. 3d St.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Sodium Silicofluoride (*see Sodium Fluosilicate*)

Sodium Stannate

N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Succinate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Sodium Sulfonate, Orthochlor Para Toluol

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave

Sodium Sulfonate Para Toluol

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Sodium Sulphanilate

N. J., Perth Amboy
General Supply Co., Market St. and Bertrand Ave.
N. Y., New York City
Marden, Orth & Hastings Corp'n, 61 Broadway

Sodium Sulphate

Cal., San Francisco
Stauffer Chemical Co.
Colo., Denver
Western Chemical Mfg. Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 54 W. Kinzie St.
Ill., Springfield
National Zinc Co.
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Mo., Kansas City
National Zinc Co., Packers Station
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Road. near Lee St.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Co., 61 Broadway
*Echavarria & Co., R., 8 Bridge St.
General Chemical Co., 25 Broad St.
*Halle-Perris Trading Corporation, 24 State St.
Kalbfleisch Corp., 31 Union Square, W.
Merck & Co., 45 Park Place
Mutual Chemical Co. of America, 55 John St.
Southern Cotton Oil Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelphia
Baugh & Sons Co.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Barr, Ltd., James C., 27. Blythswood Square

Sodium Sulphate, Anhydrous

N. Y., New York City
*Kalbfleisch Corporation, 31 W. Union Square

Sodium Sulphide

Cal., San Francisco
Barbour Chemical Works
Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Conn., Naugatuck
Naugatuck Chemical Co.
England, London
*Dexters, Ltd., 362 City Road
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 54 W. Kinzie St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Lambert Chemical Co.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts..
Cooper & Co., Charles, 194 Worth St.
*Cooper & Cooper, 309 Broadway
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co.
W. Va., Charleston
Rollin Chemical Co., Inc.

Sodium Sulphite

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Cooper & Co., Charles, 194 Worth St.

Sodium Sulphite—*cont.*

N. Y., New York City—cont.
*Echavarria & Co., R., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
Katzenbach & Bullock Co., 100 William St.
Merck & Co., 45 Park Place
Williamson, D. D., Co., 86 Fulton St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Sodium Sulphocarbolate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Sodium Tetraborate

Cal., Oakland
Pacific Coast Borax Co.
Cal., San Francisco
National Borax Co., 681 Market St.
United States Borax Co., 681 Market St.
Colo., Denver
Denver Fire Clay Co., 1742 Champ St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
Thorkildsen, Mather Co., Union Stock Yards, Harris Trust Bldg.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. &. O. R. R.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Archibald & Lewis Co., 124 Front St.
*Baker & Bro., H. J., 100 William St.
Cooper & Co., Charles, 194 Worth St.
*Doggett, Stanley, John and Cliff Sts.
Edgertyn Aniline Corp., 118 William St.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 200 Water St.
*McKesson & Robbins, Inc., 91 Fulton St.
Pacific Coast Borax Co., 100 William St.
Pfizer & Co., Inc., Charles, 81 Maiden Lane
White Tar Co., 6 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Thiosulphate

Conn., Naugatuck
Naugatuck Chemical Co.
England, London
American Commerce Co., Ltd., The. 19 St., Bride St.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Lennig & Co., Inc., Charles

Sodium Tungstate

N. Y., New York City
*Weymouth, Ralph W., 111 Broadway
Pa., Primos
Primos Chemical Co.

Sodium Uranate

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Soduxite

Ohio, Cincinnati
American Chemical Co., 642 Carr St.

Softeners, Liquid

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Softeners, Textile

Mich., Kalamazoo
Western Paper Maker's Chemical Co.
N. J., Harrison
National Oil Products Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
Sizings Specialties Co., Inc.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Ohio, Cincinnati
Moore Oil Co.
Pa., Philadelphia
Houghton & Co., E. F., 240 W. Somerset St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Soilime

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Soluol

N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
United Gas Improvement Co., 1514 S. Broad St.

Solutions, Battery

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Solutions, Nitrocellulose

Ohio, Cincinnati
*Fries & Fries, 1501–13 W. 6th St.

Solutions

Amidonaphthalene, Benedict Alkaline, Benedict Quantitative, Dimethylamidoazobenzene, Doremus Hypobromite, Esbach, Fehling Qualitative, Fehling Quantitative, Gram Iodine, Haines, Hayem, Iodine (Sat. Alcoholic), Javelle Water, Litmus Indicator, Lugol, Nessler Reagent, Nylander, Obermayer, Orsat Pot. Hydrate, Orsat Ammonium Cuprous Chloride, Orsat Alkaline Pyrogallate, Ortho Tolidine, Ozonized Turpentine, Sulphanilic Acid, Tincture Guaicum, Topfer Reagent, Toisson, Turpentine, Ozonized, Uffelman Reagent

Pa., Philadelphia
Harmer Laboratories Co.

Solutions, Soluble Cotton

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Solutions, Test

N. Y., New York City
Squibb & Sons, E. R., 78–80 Beekman St.

Solutions, Volumetric

N. Y., New York City
Squibb & Sons, E. R., 78–80 Beekman St.

Solvents

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Ind., Indianapolis
Citizens Gas Co.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
U. S. Industrial Chemical Co., 27 William St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Northern Chemical Co., W. 70th near Detroit Ave., N. W.
Pa., Warren
Warren Chemical Products Co.

Solvents, Cellulose Acetate

Ohio, Cincinnati
Fries & Fries, 1501–13 W. 6th St.

Solvents, Nitrocellulose

Ohio, Cincinnati
*Fries & Fries, 1501–13 W. 6th St.

Solvents, Pyroxlin

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Solvents, Special

Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Solvent Thinners

Del., Wilmington
Du Pont de Nemours & Co., E I.
Ill., Chicago
Van Schaack Bros. Chemical Works, 3358 Avondale Ave.
Ohio, Cincinnati
Fries & Fries, 1501-13 W. 6th St.

Solveol

N. Y., New York City
Heyden Chemical Works, 135 William St.

Spelter

Cal., San Francisco
Selby Smelting & Lead Co.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
Ill., Danville
Hegeler Zinc Co.
Ill., La Salle
Matthiessen & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Ill. St. Louis
American Zinc Co. of Illinois
Mo., Joplin
Eagle-Picher Lead Co.
N. J., Trenton
Engle, Robert H.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Electrolytic Zinc Co., 3 S. William St.
New Jersey Zinc Co., 160 Front St.
United Zinc Smelting Corporation, 99 John St.
U. S. Smelting, Refining & Mining Co., 120 Broadway

Spirit Nigrosine (*see Nigrosine, Spirit*)

Stain, Pink

N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.

Stain, Romanowsky

Pa., Philadelphia
Harmer Laboratories Co.

Stains (*see also Dyestuffs*)

N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Stains: Ehrlich Tri-acid, Gabbet, Giesma, Niesser, Neusser, Tiedeman, Zirhl Nerlsen

Pa., Philadelphia
Harmer Laboratories Co.

Stains, Wood

N. Y., New York City
*Bachmeier & Co., Inc., 438 W. 37th St.

Stannic Chloride

N. J., Sewaren
Vulcan Detinning Co.
N. Y., New York City
General Chemical Co., 25 Broad St.
*Independent Chemical Co., 122 West St.
Metal & Thermit Corporation., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Rd.
Pa., Pittsburgh
Republic Chemical Co., P. O. Box 946

Stannic Oxide

Ill., Chicago
Loraine Smelting & Refining Co., 25 N. Dearborn Ave.
Mich., Charlotte
*Charlotte Drug Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Independent Chemical Co., 122 West St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
N. J., Maurer
American Smelting & Refining Co.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Stannous Chloride

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Independent Chemical Co., 122 West St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Metal & Thermit Corporation, 60 Wall St.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Pa., Pittsburgh
Republic Chemical Co., P. O. Box 946
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Starch, Soluble

Iowa, Cedar Rapids
Douglas Co.
N. J., Jersey City
Seydel Mfg. Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Corn Products Refining Co., 17 Battery Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Gum & Mica Co., 59th and 11th Ave.

Starches, Mill

Md., Baltimore
Bloede, Victor G. Co., Caton St.

Stearine

Ill., Chicago
Cudahy Packing Co., 111 Monroe St.
Morris & Co., Union Stock Yards
Swift & Co.
Wilson & Co.
Ky., Louisville
Kentucky Refining Co.
Mass., Boston
New England Rendering Co., Abattoir Grounds Br.
N. Y., New York City
American Cotton Oil Co., 65 Broadway
Edgertyn Aniline Corp., 118 William St.
*Swan & Co., Alden S., 133 Front St.
*Welch, Holme & Clark Co., 381 West St.
Ohio, Cincinnati
American Cotton Oil Co. of Ohio, 443 E. 6th St.
Cincinnati Abattoir Co., 3241 Spring Grove Ave.
Emery Candle Co., 414 Walnut St.
Ohio, St. Barnard
Werk Co., The M., Murray Ave.
Texas, Dallas
Trinity Cotton Oil Co.

Steel Wool

Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.

Stone, Rotten

Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
Cooper & Co., Chas., 194 Worth St.

Stone, Rubbing

Ill., Chicago
*Rhodes, James H., & Co., 157 W. Austin Ave.

Strontium Bromide

Mich., Midland
Dow Chemical Co.
Mo., S. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Heyden Chemical Works, 135 William St.
Quinine and Chemical Works, Inc., 100 William St.

Strontium Carbonate

Cal., Long Beach
We tern Chemical Mfg. Co.
Del. Wilmington
Du Pont de Nemours & Co., E. I.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Strontium Hydroxide

N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.

Strontium Nitrate

Cal., Long Beach
Southern Reduction Co.
Western Chemical Mfg. Co.
Cal., Vernon
Mortimer Co., F. G.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.

Strontium Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. '9th St.

Strontium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Strontium Sulphate,

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Strophanthin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Strychnine

Ill., Chicago
Abbott Laboratories, Ravenswood
Mo. St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Hoffman-LaRoche Chemical Works.
Pfizer & Co., Inc., Chas., 81 Maiden Lane

Sugars (*Arabinose, Pure; Dextrose, Pure, Lactose, Pure; Inulin, Pure*)

Pa., Philadelphia
H. K. Mulford Co.

Sugar, Beet Residue

Ohio, Cincinnati
*Winkler & Bros. Co., 804 First National Bank Bldg.

Sugar of Lead (*see Lead Acetate*)

Sugar of Milk

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., Hobart
Sheffield By-Products Co.
N. Y., New York City
*Innis, Speiden & Co., Inc., 46 Cliff St.
Hoffman-La Roche Chemical Works
N. Y., Bainbridge
National Milk Sugar Co.

Sulphate of Iron (*see Ferrous Sulphate*)

Sulphenethylmethane

N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur

Cal., San Francisco
Great Western Electro Chemical Co.
Stauffer Chemical Co.
Conn. Stamford
Stamford Rubber Supply Co.
England, London
*Dexters, Ltd., 362 City Road
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
La., Lake Charles
American Sulphur Co.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Neb., Omaha
Standard Chemical Mfg. Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Cooper & Cooper, 309 Broadway
Edgertyn Aniline Corp., 118 William St.
Freeport Sulphur Co., 61 Broadway
General Chemical Co., 25 Broad St.
National Sulphur Co., 80 Maiden Lane
Southern Oil & Chemical Co., 15 Park Row
Texas Gulf Sulphur Co., 50 E. 42d St.
Union Sulphur Co., 17 Battery Place
Warner Chemical Co., 52 Vanderbilt Ave.
Ohio, Cincinnati
*Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Tenn., Ducktown
Ducktown Sulphur, Copper & Iron Co.
Texas, Freeport
Freeport Sulphur Co.
Va., Richmond
Sulphur Mining & Railroad Co.

Sulphur Black

Del., Wilmington
Du Pont de Nemours & Co., E. I.
*Dunker & Perkins Co., 287 Atlantic Ave.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Levinstein & Co., I., 74 India St.
*Standard Color Co., 104 Broad St.
N. J., Passaic
Wolff & Co., Jacques, 342 Lexington Ave.
N. Y., Brooklyn
Hoffman & Kropff Co., Meekin St. and Porter Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
Aniline Dyes & Chemicals, Inc., Cedar and Washington St.
*Dicks, David Co., Inc., 302 Broadway
Edgertyn Aniline Corporation, 118 William St.
*Fuller & Co., Ralph L., 81 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Read Holliday & Sons, Ltd.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Lockhaven
Stanley Aniline Chemical Works
Tenn., Kingsport
Union Dye & Chemical Corporation

Sulphur Blue

Mass., Boston
*Dunkert & Perkins Co., 287 Atlantic Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
*Fullerton, Ralph L., 81 Fulton St.
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Read Holliday & Sons, Ltd.
Ohio, Cleveland
Grasselli Chemical Co.
Tenn., Kingsport
Union Dye & Chemical Corporation
Wis., Milwaukee
Newport Chemical Works, Inc.

Sulphur Brown

Mass., Boston
*U. S. Color & Chemical Co., Inc., 93–95 Broad St.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
*Dicks, David Co., Inc., 302 Broadway
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.
Wis., Milwaukee
Newport Chemical Works, Inc.

Sulphur Chloride

Cal., San Francisco
Great Western Electro Chemical Co.
Stauffer Chemical Co.
Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
*Daigger & Co., A., 54 W Kinzie St.
Mich., Midland
Dow Chemical Co.
N. H., Berlin
Brown Co.
N. Y., Brooklyn
*Highfield, John W., 248 N. 10th St.
N. Y., New York City
*Cooper, Chas., & Co., 194 Worth St.
Hooker Electrochemical Co., 40 Wall St.
Innis, Speiden & Co., Inc., 46 Cliff St.
Warner Chemical Co., 52 Vanderbilt Ave.

Sulphur Dioxide

England, Darlington
Parkin, Ness & Co., Quebec St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Independent Chemical Co., 72 Front St.
*Schwenker, Inc., W. M., 340–343 E. 92d St.

Sulphur Dioxide, Anhydrous

N. J., Bound Brook
King Chemical Co.
N. Y., New York City
*Independent Chemical Co., 122 West St.

Sulphur Dioxide, Liquid

Va., West Norfolk
Virginia Smelting Co.
Wis., Marinette
Ansul Chemical Co.

Sulphur Flowers

England, London
Dexters, Ltd, 362 City Road
Mo., St. Louis
Commercial Acid Co., 1906 Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. Y., New York City
General Chemical Co..

Sulphur, Golden Yellow

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur Green

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur Khaki

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Essex Aniline Works, 39 Oliver St.
Levinstein & Co., I., 74 India St.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
*Dicks, David Co., Inc., 302 Broadway
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur Olive

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Essex Aniline Works, 39 Oliver St.
Levinstein & Co., I., 74 India St.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
*Dicks, David Co., Inc., 302 Broadway
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur, Orange Brown

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur, Pink

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur, Rubbermakers

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mo., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.

Sulphur Yellow

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Mass., Boston
Essex Aniline Works, 39 Oliver St.
Levinstein & Co., I., 74 India St.
N. Y., Brooklyn
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., New York City
American Aniline Products, Inc., 80 Fifth Ave.
*Dicks, David Co., Inc., 302 Broadway
National Aniline & Chemical Co., 21 Burling Slip
National Gum & Mica Co., 59th St. and 11th Ave.

Talc

Cal., Tropico
Pacific Tile & Terra Cotta Co.
Canada, Ontario, Modoc
Gillespie Co., George H.
Ill., Chicago
*Clark, Frank C., 316 W. Kinzie St.
*Daigger & Co., A., 54 W. Kinzie St.
N. C., Ashville
Georgia Talc. Co.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
*Binney & Smith Co., 81 Fulton St.
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
Innis, Speiden & Co., Inc., 46 Cliff St.
Merck & Co., 45 Park Place
Robbins Mining Co., A. A., 99 John St.
*Salomon & Bro., L. A., 216 Pearl St.
Talc Products Co., 11 Pine St.
*Whittaker Co., W. H., 250 Front St.
Union Talc Co., 132 Nassau St.
U. S. Talc Co., 41 Park Row
N. C., Asheville
Georgia Talc Co.

Tallow, Mineralized

Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Tank Linings, Acid Proof

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Tantalite

Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Tantalum

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Tar, Coal

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Conn., Derby
Derby Gas Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
American Tar Products Co., 208 S. LaSalle St.
By-Products Coke Corp.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Iowa, Des Moines
Des Moines Gas Co.
Mass., Boston
New England Fuel & Trans. Co., 111 Devonshire St.
Mass., Fall River
Fall River Gas Works Co.
Mass., Lowell
Lowell Gas Light Co.
Mass., New Bedford
New Bedford Gas & Edison Light Co.
Mich., Detroit
Detroit City Gas Co.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Station
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Gas Co.
Buffalo Union Furnace Co.
N. Y., Geneva
Empire Coke Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Niagara Coke Corp., 6 Church St.
Consolidated Gas Co. of New York
N. Y., Schenectady
Mohawk Gas Co.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Canton
United Furnace Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Allegheny By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Northern Liberties Gas Co.
United Gas Improvement Co.

Tar, Coal—*cont.*

Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Va., Norfolk
City Gas Co.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wash., Spokane
Spokane Falls Gas Light Co.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Tar, Dehydrated

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Tar, Pine

Ala., Crichton
Crichton Wood Products Co.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Fla., Jacksonville
Florida Wood Products Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
Antwerp Naval Stores Co.
Atlantic Turpentine Co.
National Rosin Oil & Size Co.
La., New Orleans
American Turpentine & Tar Co.
Gulf Naval Stores Supply Co.
N. Y., New York City
General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of New York, 160 Perry St.
Ohio, Cincinnati
*Winkler & Bro. Co.. Isaac, 804 First National Bank Bldg.

Tar Remover

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Tarola

N. Y., New York City
Barrett Co., 17 Battery Place
trate)

Tartar Emetic (*see Potassium Antimonyl Tartrate*)

Tartar, Cream of (*see Potassium Acid Tartrate*)

Tellurium

N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Terebene

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Terne Plate

Ill., Chicago
Great Western Smelting & Refining Co.
Mass., Boston
Richards & Co., Inc.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., New York City
Nassau Smelting & Refining Works
Pa., McKeesport
McKeesport Tin Plate Co.
Pa., Pittsburgh
American Sheet & Tin Plate Co.
Pa., Bethlehem
Bethlehem Steel Co.

Terpineol

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Florasynth Laboratories, Inc., 15 Beekman St.
Pa., Grassland
Essential Oil Specialties Co.

Terpinolene

N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
Florasynth Laboratories, Inc., 15 Beekman St.

Terpinhydrate

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Merck & Co., 45 Park Place
Pa., Grassland
Essential Oil Specialties Co., Inc.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Terra Alba (*see Whiting*)

Terra Cotta F

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Tetrachloride, Acetylene

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Tetralene

N. Y., New York City
*Richmond Products Co., 32 Broadway

Tetramethyldiaminophenylketone

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Tetramethyldiaminodiphenylmethane

N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.

Tetramethyldiphenylmethane

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Tetranitromethylaniline

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Tetrol

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Textase

N. Y., New York City
Malt-Diastase Co., 79 Wall St.

Thallium

N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Thallium Chloride

Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Thallium Nitrate

Pa., Philadelphia
Foote Mineral Co., Inc., 107 N. 19th St.

Thermit

N. Y., New York City
Metal & Thermit Corporation, 120 Broadway
Ohio, Marietta
Northwestern Chemical Co., The

"The Neo Earth" (*see Earth, The Neo*)

Thimners, Gum

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Hercules Powder Co.

Thiocarbanilid

Conn., Naugatuck
Naugatuck Chemical Co.
N. J., Belleville
Rare Metal Products Co., Cortland St.

Thiocarbaniline

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip
N. Y., Syracuse
Semet-Solvay Co.

Thiocarbtoluide

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Thiocarbxylide

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Thionine

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Thorium

Ill., Chicago
Lindsay Light Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Thorium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Ill., North Chicago
Pfansteihl Co., Inc.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Youngstown
Block Gas Mantle Co.

Thorium Ore (*see Monazite Ore*)

Thorium Oxide

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Thymol Crystals

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Lehn & Fink., Inc., 120 William St.
National Aniline & Chemical Co., Inc., 21 Burling Slip

Thymolphthalein

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Tin

Cal., San Francisco
Selby Smelting & Lead Co., Merchant Exchange Bldg.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Aves.
Ind., East Chicago
Raymond Lead Co., 940 W. Huron St.
Mass., Boston
Richards & Co., Inc., 200 Causeway St.
N. J., Sewaren
Vulcan Detinning Co.
N. Y., Brooklyn
Atlantic Smelting & Refining Co., 36–42 Delevan St.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Metal & Thermit Corporation
Mitsui & Co., Ltd., 65 Broadway
Nassau Smelting & Refining Co., 607 W. 29th St.
National Lead Co., 111 Broadway
U. S. Smelting, Refining & Mining Co., 120 Broadway
Wah-Chung Mining & Smelting Co., Woolworth Bldg.
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
Lewis & Bros. Co., John T., 705 Lafayette Bldg.
Taylor Co., N. & G., 409 Mariner & Merchants Bldg.

Tin Acetate

England, Manchester
Robinson & Co., H. F., Newton Heath
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Tin Chloride

N. Y., New York City
General Chemical Co., 25 Broad St.

Tin, Crystal (*see Stannous Chloride*)

Tin Lactate

N. Y., New York City
Apex Chemical Works, 63 Park Row

Tin Oxide (*see Stannic Oxide*)

Titanellow

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Titanium

D. C., Washington
American Rutile Co., 622 F St., N. W.
England, Manchester
Spence & Sons, Ltd., Peter
N. Y., New York City
*Dorl, F. & Co., Park Row Bldg.
Metal & Thermit Corporation, 120 Broadway
N. Y., Schenectady
Organic Products Corporation
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Pa., Pittsburgh
Carnegie Steel Co.

Titanium Dioxide

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Titanium Ores

D. C., Washington
American Rutile Co., 622 F St., N. W.

Titanium Oxalate

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Titanium, Oxide

D. C., Washington
American Rutile Co., 622 F. St. N.W.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Va., Roseland
American Rutile Co.

Titanium Potassium Oxalate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.

Tolidin

Del., Wilmington
Du Pont Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
Newport Chemical Works, 120 Broadway
Transatlantic Chemical Corporation, 192 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Tolidine Ortho

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Tolidin Sulphate

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Toluene

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Conn., New Haven
New Haven Gas Light Co.
Del., Wilmington
Dupont de Nemours & Co., E. I.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
By-Products Coke Corp.
*Daigger & Co., A., 54 W. Kinzie St.
Gas Co. of Indiana, Peoples Gas Bldg.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co.
Western Aniline Products Co., 36 S. State St.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Station
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Edison International Corporation, 165 Broadway
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., H. R., 194 Water St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Niagara Coke Corp., 6 Church St.
*Williamson & Co., 120 Broadway
*Zobel Co., Inc., 38 Water St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Sherwin-Williams Co
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Carnegie
Aetna Chemical Co.

Toluene—*cont.*

Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Alleghany By-Product Coke Co.
Pa., Philadelphia
United Gas Improvement Co., Broad and Arch Sts.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
R. I., Providence
Providence Gas Co.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Newport Chemical Works, Inc.
Northwestern Iron Co., First National Bank Bldg.

Toluene amidoazohydrochloride

N. Y., New York City
Aniline Dyes & Chemicals, Inc., 21 Burling Slip

Toluene, C. P.

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel & Ordnance Co., Widener Bldg.

Toluene, Nitro

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Toluene Sodium Sulphonate, Para

Del., Wilmington
Du Pont de Nemours & Co., E. I.

Toluenesulfamide, Para

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Toluenesulfochloride, Para

Mo., St. Louis
Monsanto Chemical Works, 2d St. and LaFayette Ave.

Toluidine

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Western Aniline Products Co., 36 S. State St.
Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 176 Front St.
Edgertyn Aniline Corp., 118 William St.
Independent Chemical Co., 72 Front St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Middlesex Aniline Co., Inc., 149 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 21 Burling Slip
Transatlantic Chemical Corporation, 192 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works Inc., 1112 First National Bank Bldg.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Toluidine Hydrate, Para

N. Y., Kingston
Nitrated Chemicals Co.

Toluidine, Mixed

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
Transatlantic Chemical Corporation, 192 Broadway

Toluidine, Ortho

Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ind., Hammond
Western Aniline Products Co., Morton Court
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 176 Front St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Transatlantic Chemical Corporation, 192 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works Inc., 1112 First National Bank Bldg.

Toluidine, Para

Ind., Hammond
Western Aniline Products Co., Morton Court
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 176 Front St.
Merck & Co., 45 Park Place
Transatlantic Chemical Corporation, 192 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Toluidine Reds

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Toluol (*see Toluene*)

Toluylendiamine, Meta

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Klipstein & Co., A., 644 Greenwich

Toners, Toluidine Red

N. Y., Glen Falls
Imperial Color Works, Inc.

Toxilineum (*see Oils, Wood Preserving*)

Tribromphenol

Mich., Midland
Dow Chemical Co.

Tribromphenol Bismuth

Mich., Midland
Dow Chemical Co.

Trinitrobenzene

N. Y., New York City
Merck & Co., 45 Park Place.
Ohio, Dover
Dover By-Products Coke Co.

Trinitrophenol

Conn., Stamford
American Synthetic Color Co.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Merck & Co., 45 Park Place

Trinitrotoluene

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
N. Y., Syracuse
Semet-Solvay Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Tripoli

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., Jas. H., 153 W. Austin Ave.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Salomon & Bro., L. A., 216 Pearl St.

Tropaeolin oo

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Tungsten (Metal)

Colo., Boulder
Primos N. & M. Co.
Vasco Mining Co.
Colo., Denver
Intermountain Tungsten Milling Co.
Rare Metals Ore Co.
Ill., North Chicago
Pfanstiehl Co., Inc.
N. Y., New York City
*Canada Carbide Sales Co., 30 Church St.
*Fairbanks, Morse & Co., 30 Church St.
*Hardy, Charles, 50 Church St.
Metal & Thermit Corporation, 120 Broadway
*Mitsui & Co., Ltd.
Wah Chang Mining & Smelting Co., Ltd.
N. Y., Schenectady
Organic Products Corporation
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Vanadium-Alloys Steel Co.
S. Dak., Hill City
Black Hills Tungsten Mining & Milling Co.

Tungsten, (Metal Powder)

Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Tungsten, (Metal Products)

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Tungsten, (Wire)

N. Y., Port Chester
Mallory & Co., Inc., P. R.

Tungsten Ore

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
*Hardy, Chas., Inc., 50 Church St.
*Leavitt & Co., C. W., 30 Church St.
Mitsui & Co., Ltd., 65 Broadway
*Weymouth, Ralph W., 111 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Turpentine

Fla., Jacksonville
Consolidated Land Co.
Peninsular Naval Stores Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
Antwerp Naval Stores Co.
National Rosin, Oil & Size Co.
Standard Naval Stores Co.
La., New Orleans
Gulf Naval Stores Supply Co.
N. J., Bayonne
Standard Chemical Co., W. 5th St.
N. Y., New York City
*Columbia Naval Stores Co., 17 Battery Place
*General Naval Stores Co., 90 West St.
Industrial Chemical Co., 200 Fifth Ave.
*Larendon & Co., M. W., 82 Wall St.
National Rosin, Oil & Size Co., 90 West St.
*Rosin & Turpentine Export Co., 26 Cortlandt St.
United Naval Stores Co., 130 Pearl St.
Ohio, Cincinnati
*Winkler & Bro., Isaac
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Turpentine, Gum Spirits of

La., Elizabeth
Producers Turpentine Co.
Ohio, Cincinnati
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Turpentine, Imitation Venice

Ga., Savannah
Southern Oil & Chemical Co.

Turpentine, Venice

N. Y., New York City
Zobel Co., Inc., Ernest, 38 Water St.

Turpentine, Wood Spirits of

N. Y., New York City
Georgia Pine Turpentine Co., of N. Y., 160 Perry St

Turpentine, Wood, Steam Distilled

La., Elizabeth
Producers Turpentine Co.

Ultramarine (*see Blue Ultramarine*)

Umber, Burnt and Raw Lump

Cal., San Francisco
*Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Uranium Acetate

N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
*Merck & Co., 45 Park Place
Pa., Philadelphia
Foote Mineral Co., Inc., 113 N. 19th St.

Uranium Chloride

N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
*Merck & Co., 45 Park Place

Uranium Nitrate

Ill., Chicago
Carnolite Reduction Co.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Uranium Ore

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.
Powers-Weigthman-Rosengarten Co.

Uranium Oxide

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Ill., Chicago
Carnolite Reduction Co.
Pa., Philadelphia
*Foote Mineral Co., 107 N. 19th St.

Uranium Oxide, Hydrated

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Urea

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Vaccine

D. C., Washington
National Vaccine & Anti-Toxin Institute, 1513 W St. N. W.

Vaccines, Bacterial

Ind., Indianapolis
Eli Lilly & Co., 224 E. McCarthy St.
Mich., Kalamazoo
Upjohn Co.
Pa., Philadelphia
Mulford Co., H. K.

Vanadates

Cal., Los Angeles
Calm, C. E., California Club

Vanadic Oxide

N. Y., New York City
*Merck & Co., 45 Park Place
Metal & Thermit Corporation, 120 Broadway
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Pa., Primos
Primos Chemical Co.

Vanadium (*see also Alloys*)

Colo., Denver
Radium Co. of Colorado
Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.
N. Y., New York City
Metal & Thermit Corporation, 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
American Vanadium Co.
Standard Alloys Co.
Standard Chemical Co.

Vanadium Chloride

Primos Chemical Co.
Pa., Primos
Primos Chemical Co.

Vanadium Pentoxide

Pa., Pittsburgh
American Vanadium Co.
Pa., Primos
Primos Chemical Co.

Vanadium Salts

N. Y., New York City
Radium Luminous Material Corporation, 55 Liberty St
Pa., Pittsburgh
Standard Alloys Co., Forbes and Meyren Aves.

Vanilla Beans

N. Y., New York City
*Magnus, Mabee & Reynard, Inc., 257 Pearl St.
Va., Richmond
Sauer Co., C. F.

Vanillin

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Sethness Co.
Mo., St. Louis
Monsanto Chemical Works, 2nd St. and LaFayette Ave.
N. J., Newark
Verona Chemical Works
N. Y., New York City
Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Lueders & Co., George, 218 Pearl St.
Magnus, Maybee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 21 Burling Slip
Stilwell & Co., A. A., 28 Cliff St.

Varnishes (*see also Shellac*)

Ill., Chicago
Redmanol Chemical Products Co., 648 W. 22d St.
Sears, Roebuck & Co.
N. J., Jersey City
Eagle Printing Ink Co., 265 Gates Ave.
N. J., Newark
Jaenecke-Ault Co., Ave. B and Wright St.
Murphy Varnish Co., Chestnut and McWhorter Sts.
N. Y. Buffalo
Pratt & Lambert, Inc., 75-97 Tonawanda St.
N. Y., New York City
Calman, Emil & Co., 100 William St.
General Bakelite Co., 100 William St.
Sinclair & Valentine Co., 611 W. 129th St.
Ohio, Cleveland
Glidden Co., Madison Ave. and Berea Road
Pa., Philadelphia
French & Co., Samuel H., 410 Callowhill St.
England, West Bromwich
Lewington Whitehouse, Olympic Wks., Carters Green

Varnishes, Acid Proof

Ill., Chicago
Redmanol Chemical Products Co., 648 W. 22d St.

Varnishes, Bakelite

N. Y., New York City
General Bakelite Co., 100 William St.

Varnish Gums (*see Gums, Varnish*)

Varnish, Photogravure

N. J., Passaic
*Wolff & Co., Jacques, 342 Lexington Ave.

Varnish Removers

N. Y., New York City
Berry Brothers, 262 Pearl St.

Varnishes, Electrical Insulating

Mo., St. Louis
Dielectric Mfg. Co.

Varnishes, Litho

N. J., Newark
Jaenecke-Ault Co., Ave. B and Wright St.

Verdigris

N. Y., New York City
Innis, Speiden & Co., 46 Cliff St.
Van Brunt & Co., Inc., J. A., 114 John St.

Violet, Acid Swiss

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.

Violet, Crystal

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Violet, Dahlia

Ill., Chicago
Research Laboratory of Chicago, 467 E. Ontario St.

Violet, Direct B-Extra Conc.

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Violet, Direct R Conc.

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Violet, Gentian

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Violet, Methyl

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Research Laboratory of Chicago, 467 E. Ontario St.
N. Y., Brooklyn
Zobel Color Works, Inc., 95–127 Ninth St.
N. Y., New York City
Dicks, David & Broadfoot Inc., 302 Broadway
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
L. & R. Organic Products Co., Inc., 27 Thames St.
Meth-O-Lene Co., Inc., 81 Fulton St.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.
W. Va., Huntington
Lamie Chemical Co.

Water, Distilled

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. Y., New York City
Cooper & Co., Charles H., 194 Worth St.
N. Y., Syracuse
Porter & Clancy, 200 James St.
Pa., Philadelphia
Powers-Weightmann-Rosengarten Co.

Waterglass (*see Sodium Silicate*)

Water Purifiers

Ind., East Chicago
Graver Tank Works, Wm.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
N. Y., New York City
Reisett Automatic Water Purifying Co., 23 E. 26th St.

Water Softener

Ind., East Chicago
Graver Tank Works, Wm.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
N. Y., New York City
Permutit Co., The, 440 4th Ave.
Reisett Automatic Water Purifying Co., 23 E. 26th St.

Waterproofing Materials

Md., Baltimore
Interocean Oil Co.
N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.
United States Asphalt Refining Co.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Waterproofing Preparations

N. Y., New York City
Brandes Chemical Co., 8th Ave.

Waterproofing Solutions

N. J., Passaic
Wolf, Jacques & Co.

Wax, Bees

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
*Rhodes & Co., James H., 157 Austin Ave.
Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
*Baker & Bro., H. J., 81 Fulton St.
National Aniline & Chemical Co., 21 Burling Slip
Ohio, Medina
Root Co., A. I.

Wax, Candellila

N. Y., New York City
*Francesconi & Co., J. C., 25 Beaver St.
*Innis, Speiden & Co., 40 Cliff St.
*Marden, Orth, Hastings Corp'n, 61 Broadway

Wax, Carnaba

N. Y., New York City
*Francesconi & Co., J. C., 25 Beaver St.
Innis, Speiden & Co., 40 Cliff St.
*Marden, Orth, Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip

Wax, Ceresine

N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip

Wax, Japan

Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
National Aniline & Chemical Co., Inc., 21 Burling Slip
Mitsui & Co., Ltd., 65 Broadway

Wax, Paraffine

Ill., Chicago
National Petroleum Products Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Corp'n, 61 Broadway
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Place
Tide Water Oil Co., 11 Broadway
Okla., Tulsa
Empire Refineries Co., Unity Bldg.
Ohio, Cincinnati
Moore Oil Co.
Pa., Philadelphia
Atlantic Refining Co.
Pa., Pittsburgh
Atlantic Refining Co.
Gulf Refining Co.

Wax, Shellac

N. Y., New York City
Zobel Co., Inc., Ernst, 38 Water St.

Wax, Soluble

Mass., Atlantic
Bosson & Lane
N J., Jersey City
Seydel Mfg. Co., Forrest and Halladay Sts.
Sizings Specialty Co.
N. Y., New York City
Marden, Orth, Hastings Corp'n, 61 Broadway

White Lead (*see Lead Carbonate, Basic*)

White, Vitro

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Whiting

England, Liverpool
Brazendals & Co., 37 Leeds St.
Ill., Chicago
Central Commercial Co.
*Daigger & Co., A., 54 W. Kinzie St.
N. Y., New York City
Chrystal, C. B., 11 Cliff St.
Dunn & Kruse, 53 Park Row
Hammill & Gillespie, 240 Front St.
Industrial Chemical Co., 200 5th Ave.
Taintor Mfg. Co., H. F., 2 Rector St.

Wolfram

N. Y., New York City
*Weymouth, Ralph W., 15-17 E. 40th St.

Wood Alcohol (*see Alcohol Methyl*)

Wood Creosotes (*see Creosote*)

Wood Extracts (*see Specific Headings*)

Wood Preservatives (*see Coatings, Acid Proof; Oils, Creosote; Paints, Acid Proof; Paints, Asphalt*)

Wright Stain

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Xeroform

N. Y., New York
Benzo Chemical Co., 39 Cortlandt St.
Chromos Chemical Co., Inc., Aeolian Hall

Xylene

Cal., San Francisco
Standard Oil Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Gas Oil Co. of Indiana, Peoples Gas Bldg.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Terre Haute
Indiana Coke & Gas Co.
Iowa, Des Moines
Des Moines Gas Co.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
Barrett Co., 17 Battery Place
Edison International Corporation, 165 Broadway
Edgertyn Aniline Corporation, 118 William St.
Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., 21 Burling Slip
Rector Chemical Co., 2 Rector St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Sherwin-Williams Co.
Ohio, Youngstown
Brier Hill Steel Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Harmer Laboratories Co., 1704 Broadway
Midvale Steel & Ordnance Co., Widener Bldg.
United Gas Improvement Co.
Pa., Pittsburgh
Carnegie Steel Co.
Midvale Steel Co.

Xylene (Ortho)

Mo., St. Louis
Heil Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Xylenols

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place

Xylidine

Del., Wilmington
Du Pont de Nemours & Co., E. I.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Chemical Co. of America, 28 Platt St.
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Corp'n, 61 Broadway
National Aniline & Chemical Co., Inc., 21 Burling Slip
Transatlantic Chemical Corporation, 192 Bfoadway
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Xylidine, Meta

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Xylidine, Para

R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Xylol (*see Xylene*)

Yeast

D. C., Washington
Corby Co., The
N. Y., Peekskill
Fleischmann Mfg. Co.
Ohio, Cincinnati
Fleischmann Co.

Yellow, A Concentrated, Jenyl

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Acid

N. Y., New York City
Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Yellows, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellows, Alizarine

N. J., Passaic
Wolf, Jacques & Co., 342 Lexington Ave.
N. Y., New York City
Drug & Dyestuff Corp., 120 Broadway

Yellow, Cotton, R

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Yellow, Direct

N. Y., New York City
L. &. R. Organic Products Co., Inc., 27 Thames St.
R. I., Providence
Agawam Chemical Works, 10 Weybosset St.

Yellows, Direct (Cotton)

N. J., Bound Brook
Peerless Color Co., Inc.
N. J., Passaic
American Color Mfg. Co., Gregory Ave. & River Rd., (Passaic)
N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The
N. Y., New York
Dicks, David Co., Inc., 302 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellow, Direct Fast

N. J., Bound Brook
Peerless Color Co., Inc.
Pa., Philadelphia
Pennsylvania Color Mfg. Co., 248 Chestnut St.

Yellow, Fast Light 2 G. Swiss

N. Y., New York City
L. & R. Organic Products Co., Inc., 27 Thames St.

Yellow, Direct, G

Pa., Reading
Althouse Chemical Co., 500-540 Pear St.

Yellow, 3 G.

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Yellow, Jenyl Chlorfast

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Katheton Olives

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Metanil

Pa., Philadelphia
Harmer Laboratories Co., 1704 Market St.

Yellow, Napthol

Pa., Philadelphia
Harmer Laboratories Co.

Yellow, Napthol Certified

Ohio, Sandusky
Hord Color Products Co., S. Columbus Ave.

Yellow, Naphthol S.

Ohio, Sandusky
Hord Color Products Co., The, S. Columbus Ave.

Yellow, Union

Pa., Reading
Althouse Chemical Co.

Yohimbin Hydrochloride

N. Y., New York City
Lehn & Fink, Inc., 120 William St.

Zellerol

Cal., Los Angeles
*Bobrick Chemical Co., 111-117 S. Garey St.

"Zeta" Sulphur (*see Dyestuffs*)

Zinc

England, Mouckster
Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
Great Western Smelting & Refining Co.
Mineral Paint Zinc Co., 140 S. Dearborn St.
Ill., Danville
Hegeler Zinc Co.
Ill., La Salle
Matthiesen & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Mass., Boston
American Zinc Lead & Smelting Co., 55 Congress St.
Richards & Co., Inc.

Zinc Oxide, C. P. and Tech.

Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.

Zinc, Oxide—U. S. P.

N. Y., New York City
New Jersey Zinc Co., 160 Front St.

Zinc Palmitate

N. J., Harrison
National Oil Products Co., Essex and 1st Sts.

Zinc, (Refined)

N. J., Trenton
Engle, Robert H.

Zinc Resinate

N. J., Harrison
National Oil Products Co., Essex and 1st Sts.
N. Y., New York City
Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Zinc, Rolled

N. J., New York City
New Jersey Zinc Co., 160 Front St.

Zinc Stearate

Ill., Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Mich., Charlotte
Charlotte Drug Co.
N. J., Harrison
National Oil Products Co., Essex and 1st Sts.
N. Y., New York City
Merck & Co., 45 Park Place
National Aniline & Chemical Co., 21 Burling Slip
New Jersey Zinc Co., 55 Wall St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Pa., Philadelphia
Meyer & Sons, J., 480-482 Bourse Bldg.

Zinc Sulphate

Ill, Chicago
*Daigger & Co., A., 54 W. Kinzie St.
Midland Chemical Co., 80 E. Jackson Blvd.
Md., Baltimore
*Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
Mo., Kansas City
National Zinc Co.
Mo., St. Louis
Mallinckrodt Chemical Co, 3600 N. 2d St.
N. J., Matawan
Munning Loeb Co
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Beer, Sondheimer & Co, 61 Broadway
Cooper & Co, Charles, 194 Worth St,
Innis, Speiden & Co., Inc., 46 Cliff St.
Klipstein & Co, A., 644 Greenwich St
Merck & Co., 45 Park Place
New Jersey Zinc Co., 55 Wall St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cincinnati
Buchanan Products Co., C. G., 118 E. Pearl St.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Pittsburgh
Mortland Chemical Co.
Tenn., Copperhill
Tennessee Copper Co.
Utah, Salt Lake City
American Smelting & Refining Co.

Zinc Sulphocarbolate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Zirconium

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Zirconium Oxide

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Zirconium Silicate

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Zirkite

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Zirkite Brick

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Zirkite, Refractories

Pa., Philadelphia
Foote Mineral Co., 120 N 19th St.

Zirkonalba—90% ZrO_2

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Zulite

N. J., Elizabeth
Bayway Chemical Co.

II. MANUFACTURERS AND DEALERS OF CHEMICALS AND ALLIED PRODUCTS

Ala., Birmingham
Ajax Metal Co.
Birmingham Fertilizer Co., The
Gulf States Steel Co., Brown-Marx Bldg.
Jefferson Fertilizer Co.
Tennessee Coal, Iron & R. R. Co.

Ala., Crichton
Crichton Wood Products Co.

Ala., Dothan
Home Guano Co.

Ala., Florence
U. S. Government Nitrogen Plant.

Ala., Gadsden
Gadsden Fertilizer Co.

Ala., Leeds
Canada Mineral Co.

Ala., Mobile
Taylor, Loewenstein & Co.

Ala., Montgomery
Alabama Chemical Co.
Bear Lewis Drug Co.

Ala., Roanoke
Roanoke Guano Co.

Ala., Talladega
Planters Chemical & Oil Co.

Ala., Troy
Standard Chemical & Oil Co.

Ala., Woodward
Woodward Iron Co.

Ark., Fort Smith
Industrial Laboratories, Inc.

Ark., Little Rock
Arkansas Fertilizer Co.
Arkansas Soapstone & Refractories Co.

Cal., Agnew
Western Industries Co.

Cal., Berkeley
Catalytic Chemical Co., 3d and Bancroft Sts.
Pacific Guano & Fertilizer Co.
University Apparatus Co.

Cal., Chula Vista
Hercules Powder Co.

Cal., Corona
Exchange By-Product Co.

Cal., Highland
Thompson & Son, R. S.

Cal., Long Beach
International Potash Products Co.
Western Chemical Mfg. Co.

Cal., Los Angeles
American Olive Co.
Armour Fertilizer Works, 119 Central Ave.
Bobrick Chemical Co., 111-117 S. Garey St.
*Braun Corporation, The
California Food Products Co.
General Petroleum Corporation
Hauser Packing Co., E. 9th and Mateo St.
Hercules Oil Refining Co., 608 S. Main St.
Hill Chemical Co., C. W., 326 S. San Pedro St.
Mexican Petroleum Co.
Oceanic Engineer Co.
*Pacific Chemical Co., 1421 N. Main St.
Pacific Mineral Products Co.
Riverside Portland Cement Co., Title Insurance Bldg.
Sirch Electrical & Testing Laboratories.
Southern Refining Co., 129 W. 2d St.
Star Specialty Co.
Sterling Borax Co., 215 W. 6th St.
Union Oil Co. of Cal., 215 W. 7th St.

Cal., Oakland
Butters, Charles
Pacific Coast Borax Co.

Cal., Owens Lake
California Alkali Co.

Cal., Redlands
Citrus Products Co.
Kingsbury, H. P. D.

Cal., Riverside
Riverside Portland Cement Co.

Cal., San Diego
Lower California Chemical Co.

Cal., San Francisco
Amalgamated Oil Co., Sharon Bldg.
American Cream Tartar Co., 624 California St.
American Trading Co.
Atkins Kroll & Co., 311 California Ave.
Barbour Chemical Works, 707 West Coast Life Bldg.
Bass-Hunter Paint Co., 816 Mission St.
Bayle La Coste & Co., 444 Pine St.
Beckman & Linden Engineering Corp, 415 Balboa Bldg.

Cal., San Francisco—cont.
Braun-Knecht-Heimann Co,. 584 Mission St.
Bloom & Sons, Samuel, Army and Potrero Aves.
*Breslauer, A., 485 California St.
California Alkali Co.
California Aniline & Chemical Co., 33 Clementina St.
California Glue Co., Fairfax Ave. and Rankin St.
California Ink Co., 41 Clemintina St.
California Wine Association
*Central Commercial Co., 560 Sacramento St.
Classen Chemical Co.
Coffin, Redington & Co., 625 3d Ave.
Conservative Rubber Production Co., Monadnock Bldg.
*Dill-Cossett, Inc., 235 Pine St.
El Dorado Oil Works, 149 California Ave.
Fuller & Co., W. P.
Great Western Electrochemical Co., Holbrooke Bldg.
Haas Brothers
Hawaiian Fertilizer Co., 244 California St.
Horst Co., E. Clements, 150 Pine St.
Horstman Co., John, 685 Bryant St.
Lower California Chemical Co.
*McMains & Co., A. H., 24 California St.
Moore & Co., Geo A., 212 California Ave.
Mountain Copper Co., 332 Pine St.
Nevada Sulphur Co., Merchant Exchange Bldg.
Noble Electric Steel Co., Hewes Bldg.
Pacific Guano & Fertilizer Co., 343 Sansome St.
Pacific Refining & Roofing Co., 16th and Texas Ave.
Paraffine Paint Co., 34 First St.
San Francisco Chemical Co., 332 Pine St.
San Francisco Sulphur Co., 624 California Ave.
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Standard Portland Cement Co., Title Insurance Bldg.
Stauffer Chemical Co., 1624 California Ave.
Tarter Chemical Co., 135 William St.
Union Sugar Co., 310 Sansome St.
Union Superphosphate Co., 343 Sansome St.
Western Grain & Sugar Products Co., 110 Sutter St.
Wheeler, Reynolds & Stauffer, 624 California St.

Cal., Santa Cruz
Santa Cruz Portland Cement Co.
Cal., Summerland
U. S. Dept. of Agri. Exp. Plant.
Cal., Trona
American Trona Corporation.
Cal., Vernon
Internal Dye Products Co.
Cal., Watsonville
California Spray Chemical Co.,
Cal., West Berkeley
California Aniline & Chemical Co.
Catalytic Chemical Co., 3rd and Bancroft St.
Can., B. C., Queen Charlotte Islands
International Chemical Co.
Canada, Buckingham
Electric Reduction Co., Ltd.
Can., Modoc, Ont.
Gillespie Co., Geo. H.
Can., Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.
Can., Orillia, Ont.
International Molybdenum Co., Ltd.
Can., St. Catharines, Ont.
Coniagas Reduction Co., Ltd.
Can., Shawninigan Falls, Quebec
Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal
Can., Ontario, Gravenhurst
Canadian Potash Corporation
Can., Toronto, Ont.
Canadian Ammonia Co., Ltd., Heward Ave.
Can., Quebec
L'Air Liquid Société
Colo., Boulder
Black Metal Reduction Co.
Boulder Tungsten Produce Co.
Luckie 2 Mfg. Co.
Primos N. & M. Co.
Tungsten Metals Co.
Vasco Mining Co.
Colo., Denver
American Coal Reduction & By-Products Mfg. Co.
The Chemical Products Co., 612-616 Majestic Bldg.
Colorado Fuel & Iron Co., Boston Bldg.
Colorado Radium Products Co.
Denver Fire Clay Co., 1742 Champ St.
Mine & Smelter Supply Co.
Radium Co. of Colorado
Ragged Top Mfg. Co.
Rare Metals Ore Co.
United Oil Co., First National Bank Bldg.
U. S. Rare Minerals Co.
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Colo., Grand Junction
Latimer Chemical Co.

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.
Colo., Pueblo
Norcross Chemical Co.
Colo., Sugar Loaf
Mojave-Boulder Tunsten Mfg. Co.
Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Siemon Hard Rubber Corp.
Conn., Derby
Derby Gas Co.
Conn., Hartford
Eastern Chemical Works
*Ney Co., J. M.
Olds & Whipple
Sisson Drug Co.
Conn., Middletown
Rogers & Hubbard Co.
Conn., Mystic
Wilcox Fertilizer Co.
Conn., Naugatuck
Naugatuck Chemical Co.
Conn., New Haven
Hubinger Bros. Co., J. C.
Kolynos Co., 130 Bristol St.
New Haven Gas Light Co., 80 Crown St.
Sanderson Fertilizer & Chemical Co.
Conn., Seymour
Seymour Mfg. Co.
Conn., Stamford
American Synthetic Color Co.
Celluloid Zapon Co. (Factory)
Stamford Extract Mfg. Co.
Stamford Rubber Supply Co.
Conn., Waterbury
Apothecaries Hall Co.
Del., Lewes
Lewes Fisheries Co.
Del., Milford
Caulk Co., The L. D.
Del., Newport
Krebs Pigment & Chemical Co.
Del., Wilmington
Atlas Powder Co.
Du Pont Chemical Co.
du Pont De Nemours Co., E. I.
Hercules Powder Co., 10th and Market Sts.
International Smokeless Powder & Chemical Co.
Mineral Products Mfg. Co.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
D. C., Washington, Landon
Corby Co., The
D. C., Washington
American Rutile Co., 622 F St. N. W.
Lamb & Tilden, 725 13th St. N. W.
National Vaccine & Anti-Toxin Institute, 1513 W. St., N. W.
Eng., Accrington
Phoenix Chemical Co., Ltd., The,
Eng., Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Fram Mfg. Co., Ltd., Ellis St.
Eng., Darlington
Parkin, Ness & Co., Quebec St.
Eng., Essex, Loughton
Madderton & Co., Ltd.
Eng., Lancashire, Chorley
Botany Chemical Works
Threlfall & Sons, Thos.
Eng., Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
Eng., Liverpool
Brazendals & Co., 37 Leeds St.
Clayton & Jowett, Ltd., 5 Concert St.
*Haddock Parker & Co., 14 Chapel St.
Eng., London
*American Commerce Co., Ltd., The, 19 St. Bride St.
Berk & Co., Ltd., F. W., 1 Fenchurch Ave. (E. C. 3.)
*Dexters, Ltd., 362 City Road
Franklin Chemical Co., Ltd.
Eng., Manchester
Barclay, Hobson & Co., Ltd., Harpurhey
*Hall, George D. A., 33 Mosley St.
Robinson & Co., H. F., Newton Heath
Spence & Sons, Ltd., Peter
Victors, Ltd., Victoria Bldg.
*Willcocks & Co., Ltd., H. S., 5 Beaver St., Whitworth St.
Eng., Oldham
Granville Wood & Co., Ashcroft St.
Eng., Sheffield
Newsholina, Ltd., G. T. W., 27 High St.
Eng., Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Eng., Stockport
Cornbrook Chemical Co., Ltd.
Eng., Sussex
Standard Tablet Co., Ltd., The
Eng., West Bromwich
Lewinton Whitehouse, Olympic Works, Carters Green
Eng., Widnes
Alumina Co., Ltd., The
Eng., Wolverhampton
Bailey & Son, William
Reade Bros. & Co., Ltd.
Fla., Gainesville
Florida Fertilizer Mfg. Co.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Fla., Jacksonville
Armour Fertilizer Works
Consolidated Land Co.
Florida Wood Products Co.
Jacksonville Chemical Mfg. Co.

Fla., Jacksonville—cont.
Painter Fertilizer Co., E. O.
Peninsular Naval Stores Co.
Wilson & Toomer Fertilizer Co.
Fla., Lakeland
Lakeland Phosphate Co.
Fla., Ocala
Camp Phosphate Co.
Fla., Pierce
Pierce Phosphate Co.
Fla., Rockwell
Dunnellon Phosphate Co.
Fla., Tampa
Gulf Fertilizer Co.
Ga., Atlanta
Adair, A. D., & McCarty Bros.
Armour Fertilizer Works
Chickamauga Fertilizer Co.
Empire Cotton Oil Co.
Marietta Fertilizer Co.
Morris Fertilizer Co.
Old Dominion Guano Co.
Phenix Supply Co.
Porter Fertilizer Co.
Ga., Augusta
Georgia Chemical Works
Georgia Cotton Oil Co
Neely & Wilcox
South Atlantic Fertilizer Co.
Southern States Phosphate & Fertilizer Co.
Ga., Athens
Empire State Chemical Co.
Georgia Phosphate Co.
Marietta Fertilizer Co.
Southern Refining Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Cartersville
Big Tom Barytes Co.
Cherokee Ochre Co.
Georgia Peruvian Ochre Co.
New Riverside Ochre Co.
Paga Mining Co.
South Leasing Co.
Ga., Macon
Columbia Guano Co.
Cotton States Seed & Fertilizer Co.
Ga., Montezuma
Montezuma Fertilizer Co.
Ga., Savannah
Alexander & Co., Inc., G. S.
American Naval Stores Co.
Antwerp Naval Stores Co.
Atlantic Turpentine Co.
Barker Chemical Co.
Comer & Co., E. T.
Crum & Co., W. R.
Hull & Co., James
Lang & Co., J. M.
London & Savannah Naval Stores Co.
Mutual Fertilizer Co.
National Rosin Oil & Size Co.
Producers Naval Stores Co.
Reliance Fertilizer Co.
Savannah Guano Co.
Southern Fertilizer & Chemical Co.
Standard Naval Stores Co.
Southern Oil & Chemical Co.
Willcox-Ives & Co.
Willcox-Ives Oil Co.
Ill., Aurora
Coal Products Mfg. Co.
Jobbins, Inc., William F., 923 N. Lake St.
Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.
Adams & Elting Co., 712 Washington Boulevard
Adams Co., Fred C., 234 S. La Salle Ave.
Allen Co., L. B., 4545 N. Lincoln Ave.
Alston-Lucas Paint Co., Wade and Currier Sts.
American Coal Tar Products Co., 208 S. LaSalle St
American Extract Co., 129 W. Kinzie St.
American Pumice Co., Harris Trust Bldg.
American Steel & Wire Co., 212 S. La Salle St.
Armour & Co., Union Stock Yards
Armour Fertilizer Works, Union Stock Yards
Armour Glue Works, 137 La Salle Ave.
Armour Soap Works, 3130 Benson St.
Barrett & Barrett, 55 Austin Ave.
Barrett & Co., M. L., 233 W. Lake Ave.
Beekler Co., Jno. G., 722 Curtis St.
Birkenstein & Sons, S., 409 W. Ontario St.
*Burdett Mfg. Co., St. Johns Court
Burke & James, Inc., 240 E. Ontaror St.
By-Products Coke Corporation
Carnotite Reduction Co.
*Central Asbestos & Magnesia Co., 214 W. Grand Ave.
Central Chemical Co., 111 W. Washington St.
Central Scientific Co., 460 E. Ohio St.
Chapman & Smith Co., Washington Boulevard and S. Carpenter St.
Chicago Copper & Chemical Co., 111 W. Jackson Pl.
Chicago Varnish Co., 2100 Elston Ave.
Chicago White Lead & Oil Co., 15th and Western Ave.
Chisos Mining Co., The, 565 W. Washington St.
*Clark, Frank Co., 316 W. Kinzie St.

Ill., Chicago—cont.
Columbia Chemical Works, 220 W. Huron St.
Columbia Mineral Wool Co., 58 W. Washington St.
Consumers Refining Co., 76 W. Monroe St.
Cooper & Nephews, William, 152-154 W. Huron St.
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
Cudahy Packing Co., 111 W. Monroe St.
Cutter Laboratory, The, 170 N. Dearborn Ave.
*Daigger & Co., A., 52-56 W. Kinzie St.
Darling & Co., 4201 S. Ashland Ave.
*Davidson Commission Co., 140 W. Van Buren St.
Dearborn Chemical Co., 332 S. Michigan Ave.
Deegan Supply Co., 116-122 W. Illinois St.
DeVauz Anti-Toxin Co., F. H., 159 N. State St.
Diamond Glue Co.
Diamond Match Co., 110 W. Kinzie St.
Eagle Pitcher Lead Co.
Fairbanks & Co., N. K., 7 S. Dearborn Ave.
*Freeman, John R., 348 N. Irving Ave.
Fuller & Fuller, 235 W. Randolph St.
*Furman, Jas. H., 326 W. Madison St.
Gas Oil Co. of Indiana, People's Gas Bldg.
Gazzolo Drug & Chemical Co., 119-123 S. Green St.
*German Kali Works, 1901 McCormick Bldg.
*Glaser & Crandell Co., 2000 S. Western Ave.
Glaser, Kohn & Co., 2000 S. Western Ave.
Goldsmith Bros., Smelting & Refining Co., Madison and Wabash Aves.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Heissler & Junge Co., 301 W. 39th St.
Heller & Co., B., 3925 Calumet Ave.
Heller Chemical Co., 900 Fulton St.
Hirsh, Hall & Co, 111 W. Washington St.
Hollister-Wilson Laboratories
Hutchinson & Son, W. H., 196 Desplaines St.
Illinois Steel Co., 208 S. LaSalle St.
Independent Brewing Co., 821 Blackhawk St.
Inland Steel Co., First Nat. Bank Bldg.
Kelso & Co., 557 W. Quincy St.
*Laboratories Supply Co.
Laboratory Materials Co., 640 E. 71st St.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Lindsay Light Co., 161 E. Grand Ave.
Liquid Carbonic Co., 31st and Kenzie Ave.
Lithflux Mineral & Chemical Works, 56 W. Randolph St.
Long Chemical Co., The Ed., 1276 Claybourne Ave.
Loraine Smelting & Refining Co., 25 N. Dearborn Ave.
Marvel Soap Paste Co., 2901 S. Canal St.
*Merchants Chemical Co., 7 S. Dearborn St.
Metal Products Co., 100 S. Jefferson St.
Midland Chemical Co., 80 E. Jackson Blvd.
Mineral Paint Zinc Co.
Monahan Antiseptic Co., 166-172 Curtis St.
Morris & Co., Union Stock Yards.
Morton Salt Co., 80 E. Jackson Blvd.
Mosso Laboratories, C. A., 2253 Warren Ave.
National Ox-Hydric Co.
National Steel & Copper Plate Co., 542 S. Dearborn St.
Nubian Paint & Varnish Co., 1856 Le Claire Ave.
Obermayer Co., S.
Pease Co., C. F., 219 W. Institute Place
Price Flavoring Extract Co., 29 E. Illinois St.
Puhl-Webb Co., 624 W. Randolph St.
Randall Graphite Sheet Lubricator Co., 816-818 W. Lake St.
Raven Mining Co., 1403 Dearborn Ave.
Raymond Lead Co., 940 W. Huron St.
Redmanol Chemical Co., 648 W. 22d St.
Research Laboratory of Chicago, 467 E. Ontario St.
Rhodes & Co., Jas. H., 157 W. Austin Ave.
Russell Kincaid Co., 144 W. Austin Ave.
Sall Mountain Co., 230 S. LaSalle St.
Sandoval Zinc Co., 410 N. Peoria St.
Sanford Mfg. Co., Congress and Peoria Sts.
*Sardy Fertilizer Materials Co., J. B., 140 W. Van Buren St.
*Schaar & Co., 1025 S. State St.
*Sears, Roebuck & Co., Homan and Hanard Aves.
Sethness Co., 718 N. Curtis St.
Sherwin Williams Co., Pullman Station
Sinclair Refining Co., Conway Bldg.
Stein, Hall & Co., Westminster Bldg.

Ill., Chicago—cont.
Street & Co., R. R., 541 W. Washington St.
*Stresen-Reuter & Hancock, Inc., 122 S. Michigan Ave.
Stuart & Co., Inc., D. A., 29 S. La Salle St.
Swift & Co., Union Stock Yards
Thomson & Taylor Spice Co., 563 W. 22d St.
Thorkliesyen-Mather Co., Harris Trust Bldg.
United Chem. & Organic Products Co.
United States Gypsum Co., 205 W. Monroe St.
United States Silica Co., 122 S. Michigan Ave.
U. S. Silica Co., 122 Michigan Blvd.
Van Schaak & Son, 114 W. Lake St.
Van Schaack Bros. Chemical Works, Avondale and Kimball Aves.
Victor Chemical Works, 343 S. Dearborn St.
Welch Mfg. Co., 1516 Orleans St.
Western Aniline Products Co., 1160 Old Colony Bldg.
Wilson & Co., 41st and Ashland Ave.

Ill., Chicago Heights
Dicks David & Heller Co.

Ill., Danville
Hegeler Bros.

Ill., Depue
Mineral Paint & Zinc Co.

Ill., East St. Louis
Illinois Mineral Milling Co.

Ill., Highland Park
Special Chemicals Co.

Ill., Hillsboro
Robert Lanyon Zinc & Acid Co.

Ill., La Salle
Carus Chemical Co.
La Salle Portland Cement Co.
Matheson & Hegelar Zinc Co.

Ill., Lemont
Illinois Pure Aluminum Co.

Ill., Madison
Kettle River Co.

Ill., Moline
Lewis Mfg. Co., F. J.

Ill., North Chicago
Pfanstiehl Co., Inc.

Ill., Oglesby
Illinois Clay Products Co.

Ill., Peoria
Allaire, Woodward & Co.
Clarke Bros. & Co.
Colburn, Birks & Co.
Keystone Steel & Wire Co.
Woolner & Co.

Ill., Peru
Illinois Zinc Co.

Ill., Quincy
Monroe Color & Chemical Co.
Monroe Drug Co.

Ill., Springfield
National Zinc Co.

Ill., Sterling
Massey & Massey Co.

Ill., Tamms
Tamms Silica Co.

Ill., Waukegan
North Shore Gas Co.

Ind., Coxville
Acme Glass Sand Co.

Ind., East Chicago
Graver Tank Works, Wm.

Ind., Evansville
Evansville Packing Co.
Uhl Pottery Co.

Ind., Fort Wayne
Bash Fertilizer & Chemical Co.

Ind., Greencastle
Greencastle Zinc & Lead Mining Co.

Ind., Hammond
Western Aniline Products Co., Morton Court

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Hoffman Co., Geo. Wm., 557 E. Washington St.
Eli Lilly & Co., 224 E. McCarthy St.
Pitman Moore Co.
Prest-O-Lite Co., Speedway.
Rauh & Sons, E., 427 S. Penn Ave.
Republic Creosoting Co., Merchants' Bank Bldg.

Ind., Lawrenceville
Central Refining Co.

Ind., Lawrenceburg
Rossville Co.
Walsh & Co., James

Ind., Linton
Linton Gas Co.

Ind., Marion
Western Drop Forge Works.

Ind., Muncie
Central Indiana Gas Co.

Ind., South Bend
O'Brien Varnish Co., Washington and Johnson Sts.

Ind., Terre Haute
Commercial Distilling Co., The
Indiana Coke & Gas Co.

Iowa, Cedar Rapids
Douglas Co.

Iowa, Des Moines
Des Moines Gas Co.

Iowa, Fort Dodge
Plymouth Gypsum Co.

Kans., Kansas City
National Zinc Co., Packen Station

Ky., Ashland
Ashland Iron & Mining Co.

Ky., Georgetown
Indian Refining Co.

Ky., Louisville
Federal Chemical Co.
Kentucky Refining Co.
Louisville Soap Co., 2440 Floyd St.
Standard Oil Co. (of Kentucky)
Ky., Marion
Kentucky Fluor Spar Co.
La., Crowley
Crowley Oil & Mineral Co.
La., Elizabeth
Producers Turpentine Co.
La., New Orleans
American Turpentine & Tar Co.
American Zinc, Lead & Smelting Co., 55 Congress St.
Barrett Mfg. Co., Hibernia Bank Bldg.
Gulf Naval Stores Supply Co.,
Jefferson Distilling & Denaturing Co.
Louisiana Distilling Co.
New Orleans Acid & Fertilizer Co., Gretna Lane.
Planters Fertilizer & Chemical Co.
Seaboard Refining Co.
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Union Naval Stores Co., Whitney Bldg.
Wallior Chemical Works, 1010 Camp St
La., Onvil
Covington Naval Stores Co.
Me., Bangor
Eastern Mfg. Co.
Me., Portland
Brown Co.
Chisos Mining Co., The
Electron Chemical Co., 534 Congress St.
Portland Refining Co.
Md., Baltimore
Baugh & Sons Co., 27 S. Calvert St.
Bloede Co., Victor G., Caton Ave.
Burroughs Bros. Mfg. Co.
Canton Corn Products Co., Clinton and 4th Ave.
Clendenin Bros., Central and Fawn Sts.
*Cottman & Co., J. H., Keyser Bldg.
Davidson Chemical Co., South and German Sts.
Hancock & Sons, John F., 4 S. Howard St.
Hubbard Fertilizer Co., 802 Keyser Bldg.
Interocean Oil Co. (East Brooklyn)
Island Petroleum Co., Keyser Bldg.
*Lewis Importing & Mfg. Co., 1122 W. Saratoga St.
Lord, Hy. W., 1628 Moreland Ave.
Maryland Chemical Co., Columbia Ave. and B. & O. R. R.
McCormick & Co., 722 E. Pratt St.
Miller Fertilizer Co., 7 S. Gay St.
Ober & Sons Co., G., Fidelity Bldg.
Patapsco Guano Co., Vickers Bldg.
Rasin-Monumental Co., National Marine Bank Bldg.
Robinson & Son Co., Wm. C., 32 South St.
Sharp & Dohme, Pratt & Howard Sts.
*Sonneborn Sons, L., 513 W. Lombard St.
Standard Wholesale Phosphate Co., Continental Bldg.
*Struven & Co., Chas. M., 114 S. Frederick St.
Thomsen Chemical Co., Race and Winder Sts.
Thomas Mfg. Co., 117 W. Camden St.
Tidewater Portland Cement Co.
United States Fertilizer Co., Phoenix Bldg.
United States Industrial Chemical Co., Curtis Bay
Virginia Red Oil Products Corporation, 3rd Ave. and 8th St.
*Walter Co., Edw. J., 803 American Bldg.
Webb & Son, A. L., 115–117 E. Lombard St.
*White & Co., Thos. H., Reed Bldg.
Md., Colgate
Electrolytic Zinc Co.
Md., Elkton
Scott Fertilizer Co.
Md., Hagerstown
Central Chemical Co.
Security Cement & Lime Co.
Md., Hancock
Pennsylvania Glass Sand Co.
Mass., Andover
Tyer Rubber Co.
Mass., Atlantic
Bosson & Lane
Mass., Auburndale
Burnham Soluble Iodine Co.
Mass., Ayer
Feculose Co. of America
Mass., Billerica
Billerica Glue Co.
Mass., Boston
Alliance Chemical Co., 178 Federal St.
American Camphor Refining Co., 14 Fulton St.
American Glue Co., 121 Beverly St.
American Soda Fountain Co., 282 Congress St.
Ashley & Co., F. C., 683 Atlantic Ave.
Atlantic Chemical Co., 50 Congress St.
Atlantic Dyestuff Co., 8 Ames Bldg.
Atteaux & Co., F. E., 176 Purchase St.
Avery Chemical Co., 88 Broad St.
Bird & Co., J. A. & W., 88 Pearl St.
Bowdlear Co., W. H., 73 Broad St.
Bowker Fertilizer Co.

Mass., Boston—cont.
Bradley Fertilizer Works, 92 State St.
Brock Rubber Co., A. S.
Burkhardt Brewing Co., Parker and Station St.
Cabot, Godfrey L., 204 Washington St.
Cabot, Samuel, Inc., 141 Milk St.
Carters Ink Co., 239 Front St.
Cochrane Chemical Co., 40 Central St.
Consolidated Rendering Co., 40 N. Market St.
Cordingley & Son, W. S., 229 A St.
*Cronkhite Co., Inc., 185 Deavonshire St.
Davidson Rubber Co., 241 A St.
Dennison Mfg. Co., 26 Franklin St.
Dodge & Olcott, 128 Milk St.
*Durfee, Winthrop C., 516 Atlantic Ave.
Eastern Drug Co., 21 Fulton St.
Eastern Talc Co.
Eagle Oil & Supply Co., 44 India St.
*Gahm & Son, J., Anchor and C. S. B.
Jennings & Co., Inc., 93 Broad St.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Levinstein & Co., Inc.
Leyland & Co., Thos., 60 India St.
Linder & Meyer, 89 State St.
Metcalf Co., Theo., 535 Boylston St.
Merrimac Chemical Co., 33 Broad St.
Mexican Petroleum Co., Security Bldg.
Montgomery & Co., W. L., 146 Summer St.
Murray Co., 224 State St.
Neponset Color Co., Hyde Park.
New England Fuel & Trans. Co., 111 Devonshire St.
New England Gas & Coke Co., 24 West St.
New England Rendering Co., Abattoir Grounds Br.
Northern Industrial Chemical Co., 11 Elkins St.
Patch & Co., E. L., 99 North St.
Richards & Co., Inc., 200 Causeway St.
*Rosentwist & Görner, 26 India Sq.
Salomon & Bro., L. A., 216 Pearl St.
Shaw & Co., John, 15 Elkins St.
Slade Co., D. & L., 189 State St.
Smith & Nichols, 121 Maiden Lane
*Stickney & Poor Spice Co., 184 State St.
Thayer & Co., E. M., 411 Atlantic Ave.
Union Oil Co., 215 W. 7th St.
United Indigo & Chemical Co., 176 Federal St.
United Lined Tube & Valve Co.
U. S. Smelting, Refining & Mining Co., 5 Congress St.
*Waite, Ranlet & Co., 80 Broad St.
Waltham Bleachery & Dye Works, 50 State St.
Warren Bros. Co., 59 Temple Pl.
Lobel Co., Inc., Ernest, 48 Cornhill St.

Mass., Cambridge
The Exolon, 156 Sixth St.
Lever Bros.
Reardon & Sons Co., John

Mass., Fall River
Fall River Gas Works

Mass., Leominster
Danfourth Chemical Co.

Mass., Lowell
Lowell Gas Light Co.

Mass., Melrose
Melrose Chemical Co., Essex St.

Mass., New Bedford
Davis Chemical Works, H. V.
*Nye, Wm. F.

Mass., Newton Lower Falls
Sullivan Co., R. T.

Mass., N. Brookfield
Quabang Rubber Co.

Mass., Norwood
Morrill Co., Geo. H.

Mass., Peabody
Clark Co., B.

Mass., Roxbury
Baird & McGuire

Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.
Northern Industrial Chemical Co., 11 Elkins St.

Mass., Springfield
Baker Extract Co.

Mass., West Stoughton
Stoughton Mills, Inc.

Mass., Worcester
Brewer & Co.
Marble & Co., J. Russell
White & Bagley Co.

Mich., Bay City
Northern American Chemical Co.

Mich., Cadillac
Cadillac Chemical Co.
Cummer-Diggins Co.

Mich., Charlotte
*Charlotte Drug Co.

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
American Silica Co., Dime Bank Bldg.
Berry Bros., Ltd., Leib and Weght Sts.
Boydell Bros. White Lead & Color Co., 18 Congress St.
Charcoal Iron Co. of America.
Detroit Chemical Works, 238 Junction Ave.
Detroit White Lead Works, 560 Milwaukee Ave.
Digestive Ferments Co., 16 Locust St.

Mich., Detroit—cont.
Eaton & Son, Theo. H., 26 Woodward Ave.
Goebel Brewing Co., 35 Rivard St.
International Color & Chemical Co., 570 Franklin St.
Masury & Son, J. W., 50 Jay St.
Mexican Crude Rubber Co., Penobscot Bldg.
Michigan Alkali Co., 1622 Ford Bldg.
Michigan Ammonia Works, Meldrum St.
Michigan Carbon Works, Carbon and Forman Aves.
Michigan Stove Co., 1022 Jefferson Ave.
Nelson Baker & Co., 58 Brooklyn Ave.
Parke, Davis & Co.
Savigny Co., 4 Adams Ave., W.
Stearns & Co., Frederick
Trus-Con Laboratories
White Star Refining Co. 614 Avery Ave.
Zenner Products Co., 133-35 Larned St.

Mich., Grand Rapids
Alabastine Co.
Carpenter-Udell Co.
Imperial Chemical Co.
Richards-Wilson Pipe Covering Co., 325 Scribner Ave.

Mich., Huron
Huron Milling Co.

Mich., Kalamazoo
Todd Co., A. M.
Upjohn Co.
Western Papermakers Chemical Co.

Mich., Lansing
Lansing Chemical Co.

Mich., Menominee
Michigan Electrochemical Co., N. State St.

Mich., Midland
Dow Chemical Co.
Midland Chemical Co.

Mich., Muskegon
Michigan Tanning & Extract Co.
Muskegon Extract Co.

Mich., Saginaw
United States Graphite Co.

Mich., Wells
Delta Chemical Co.
Mashek Chemical & Iron Co.

Mich., Wyandotte
Ford Co., J. B.

Minn., Duluth
American Carbolite Co., 301 N. 55th Ave.
Minnesota Steel Co., Morgan Park Station

Minn., Minneapolis
Archer-Daniels Linseed Co., 2901 S. E. 6th St.
Columbia Chemical Co.
Midland Linseed Products Co., 1101 S. 3d St.
Noyes Bros. & Cutler, 376 Sibley St.
Van Tilburg Oil Co., The

Minn., St. Paul
Minnesota By-Product Coke Co.

Minn., South St. Paul
National Serum Co.

Minn., West Duluth
Carbic Mfg. Co.
Zenith Furnace Co.

Miss., Tupelo
Tupelo Fertilizer Works

Mo., Blackwell
Cole & Co., L. E.

Mo., Fletcher
Johnson Bros.

Mo., Independence
Independence Aniline & Refining Co.

Mo., Halifax
Carter & Co., H. C.

Mo., Henley
Reavis & Co., W. T.

Mo., Joplin
Picher Lead Co.

Mo., Kansas City
Hood, Abner, Chemical Co., 1409 W. 10th St.
Inter-Ocean Oil Co.
National Zinc Co., Main Office, 61 Broadway, New York City

Mo., Mineral Point
Point Milling & Mfg. Co.

Mo., Monroe
Monroe Color & Chemical Co.

Mo., Pacific
Pacific Glass Sand Co.

Mo. Potosi
Carr, A H.
Casey & McGregor
Long, James
South East Wisconsin Lead Co.

Mo., St. Louis
Alunite Co. of America
American Asphalt Association
American Oleite Co., 1404 N. Park Place
Antikamnia Chemical Co., 1624 Pine St.
Applegren Mfg. Co., F., 7th and Howard Sts.
Barnes Mfg. Co., 302 Valentine St.
Bell Mfg. Co., 104 Gratiot Ave.
Blue Line Chemical Co., Granite Bldg.
Certain-teed Products Corporation
Commercial Acid Co., Boatmen's Bank Bldg.
Continental Chemical Co., 418 N. 3rd St.
Cranfield Mfg. Co., J. H., 1623 N. 7th St.

Mo., St. Louis—cont.
Cremoline Disinfecting Co., 17 S. Main St.
Dielectric Mfg. Co.
Donzelot & Son, Eugene, 16 S. Main St.
Finch Mineral & Milling Co., J. C., 101 Barton St.
*Heil Chemical Co., Henry, 210-214 S. 4th St.
H. M. T. Chemical Co., Merchants Laclede Bldg.
Hoyt Metal Co, Boatsmen's Bank Bldg.
Laclede Chemical Co., 616 Washington St.
Laclede-Christy Co., Railroad Exchange Bldg.
Laclede Gas Light Co., 1017 Olive St.
Lambert Chemical Co., R. R. Exchange Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Lambert Chemical Co., Railway Exchange Bldg.
Merrell Drug Co., U. S., 4th and Markets Sts.
Midvale Chemical Co., 610 Locust St.
Midvale Mining & Mfg. Co., 705 Olive St.
Missouri Fire Brick Co.
Monsanto Chemical Works, 1800 S. 2d St.
Mound City Paint & Color Co., 1531 N. 11th St.
National Ammonia Co., The, 3600 N. Broadway.
Nevins Chemical Works
Nulsen, Klein & Krausse Mfg. Co., Foot Sidney St.
Pierce Oil Corporation, Olive and Broadway
Potosi Lead Barytes & Mercantile Co., 721 Locust St.
Provident Chemical Works, 8011 Idaho Ave.
Reardon Glue Mfg. Co.
*Salzgeber, George H., 109 St. George St.
Washington Land & Mixing Co., 307 Washington St.
Whitelaw Bros. Chemical Co.

Mont., Helena
Perry & Co., C. T.

Neb., Alliance
Potash Products Co.

Neb., Antioch
American Potash Co.
Nebraska Potash Works Co.

Neb., Franklin
Hevner, C. W.

Neb., Hoffman
Potash Product Corporation.

Neb., Lakeside
Hord Alkali Product Co.

Neb., Omaha
American Potash Co.
Cudahy Packing Co.
Standard Chemical Mfg. Co., 1312 Harvey St.
Standard Chemical Mfg. Co.
Nebraska Blaugas Co., 28th and Boyd Sts.
N. H., Berlin Brown Co.

N. J., Bayonne
Nucoa Butter Co.
Standard Chemical Co., W. 5th St.

N. J., Belleville
Eastwood Chemical Co.
Rare Metal Products Co., Cortland St.

N. J., Bloomfield
Condensite Co. of America

N. J., Bound Brook
King Chemical Co.
Peerless Color Co.

N. J., Bridgeton
Crystal Sand Co.

N. J., Camden
Hollingshead Co., R. M.
MacAndrews & Forbes Co., 3d St. and Jefferson Ave.
Mechling Bros. Mfg. Co.
Taylor, White Extracting Co., Cooper River and Pine St.

N. J., Carlstadt (Bergen County)
Franco-American Chemical Works, Inc.

N. J., Chrome
U. S. Metals Refining Co.

N. J., Edgewater
Spencer Kellogg & Sons, Inc.

N. J., Elizabeth
Bayway Chemical Co.
Gilchrist Co., Robt.
Moore Bros. Co.

N. J., Haledon
Macky Wood Aniline Co., Inc.

N. J., Harrison
National Oil Products Co.

N. J., Jersey City
Colgate & Co.
Davey Sons, W. O.
Dixon Crucible Co., Joseph
Eagle Printing Ink Co.
Globe Chemical Co., 168 Broadway
Hinton Chemical Co.
Holbrook Mfg. Co.
Import Chemical Co., 162 First St.
Interstate Chemical Co.
12 Bay View Ave.
Lamar Chemical Co., 44-56 Lewis Ave.
Natural Products Refining Co.
902-910 Garfield Ave.
Onyx Oil & Chemical Co.
Reed & Carnwick, 42 Germania Ave.

N. J., Jersey City—cont.
Seydel Mfg. Co., Forrest and Holliday Sts.
Sizings Specialty Co.,
Williams & Sons, E. A.
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Manville
Johns-Manville Co.,
N. J., Matawan
Chrome Color Works
Munning Loeb Co.
N. J., Maurer
American Smelting & Refining Co.
N. J., Maywood
Citro Chemical Products Co.
Shaefer Alkaloid Works
N. J., McClellan
Natural Carbonic Gas Co.
N. J., Metuchen
Acme Dyestuff & Chemical Co., Durham Ave.
N. J., Newark
American Oil & Supply Co., 52 Lafayette Ave.
American Platinum Works, 231 New Jersey Railroad Ave.
American Synthetic Dyes, Inc.
American Ultramarine & Globe Aniline Works, Hamburg Pl.
Baker & Co., Inc., Murray and Austin Sts.
Brunswick Chemical Co.
Camden Coke Co., Broad and Bank Sts.
Cawley, Clark & Co.
Central Chemical Co.
Central Dyestuff & Chemical Co., Plum Pt. Lane
Columbus Crystal Co.
Haack & Co., 800 Broad St.
Hanovia Chemical & Mfg. Co., Chestnut St. and N. J. Railroad Ave.
Hanson & Van Winkle Co., 269 Oliver St.
Hoff, Johann, 42 Jaliff St.
International Oxygen Co., 796 Frelinghuysen Ave.
Jaenecke-Ault Co., Ave. B and Wright St.
Keystone Dyestuff & Chemical Co.,671 Broad St.
Listers Agricultural Chemical Works
Martin Dennis Co.
Murphy Varnish Co., Chestnut and McWhorter Sts.
National Carbonic Acid Co.
National Carbonic Gas Co.
Rubber & Celluloid Products Co., 65 Ferry St.
Seaboard Chemical Co.
Sherwin, Williams Co., Lister and Brown Sts.
Stewart & Co., C. H.
Verona Chemical Co.
N. J., New Brunswick
Antimony & Compound Co. of America, P. O. Box 293
Johnson & Johnson
Squibb & Cox., E. R.
United States Nickel Co.
N. J., Old Bridge
Bloomfield Mills Co.
N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Rd.
*Wolf, Jacques & Co.
N. J., Paterson
Fine Colors Co., 21-29 McBride Ave.
N. J., Pennington
Westover Chemical Co.
N. J., Perth Amboy
Didier-March Co.
General Supply Co., Market St. and Bertrand Ave.
May Chemical Co., F. L.
National Synthetic Co.
Raritan Copper Works
N. J., Phillipsburg
Baker Chemical Co., J. T.
Ingersoll-Rand Co.
N. J., Plainfield
Browne-Ferrar Co.
N. J., Ridgefied Park
British American Chemical Co., Inc.
N. J., Sewaren
Vulcan Detinning Co.
N. J., Stewartsville
Edison Portland Cement Co.
N. J., Trenton
Engle, Robert H.
Eureka Flint & Spar Co.
Golding Sons & Co., S.
Katzenbach & Bullock Co.
Luzerne Rubber Co.
Stokes Rubber Co., Jos.
Universal Fiber Co.
Utah Potash Co., The
N. J., Wallington
Anderson Chemical Co.
N. J., West Hoboken
Palisade Mfg. Co.
N. J., West Orange
Lippincott Chemical Co.
Nev., Reno
Neo Mfg. Co., P. O. Box 672
N. Y., Albany
Albany Chemical Co.
Mendelson Corporation
Wander & Sons' Chemical Co., S., 135 Church St.
N. Y., Asbury
Asbury Graphite Mills
N. Y,. Batavia
Genesee Chemical Co.

N. Y., Binghamton
Ansco Co.
Binghamton Oil Refining Co.
Chenango Chemical Co.
N. Y., Brooklyn
Bristo Myers Co., 281 Greene Ave.
Burns Supply Co., E. Reed
Commonwealth Color & Chemical Co., Butler St.
Crescent Chemical Mfg. Co., Van Brunt and Beard Sts.
Cresol Chemical Co., 10 Van Buren St.
Davis Oil Co., 95 9th St.
Fraser Tablet Co., 453 19th St.
General Carbonic Co., 444 Van Brunt St.
Giuseppe Ferlazzo Co.
Higgins & Co.. Chas. M., 271 9th St.
Highfield, John W., 248–252 N. 10th St.
Hoagland Laboratories, Pacific and Henry Sts.
Hoffman & Kropff Chemical Co., Meeker and Porter Sts.
Huber Brewing Co., Otto, 1 Bushwick Pl.
Iridescent Dyestuff & Chemical Co., 247 Bush St.
Knappman & Co., William, Grand and Metropolitan Aves.
Marx & Rawolle, Inc., 9 Van Brunt St.
Masury & Son, J. W., 50 Jay St.
*Miner-Edgar Co., 52 Warren St.
Moller & Schumann Co., Macoy and Flushing Ave.
Moore & Co., Benj., 231 Front St.
Robinson Bros., Montrose and Seneca Aves.
Sternau & Co., S., 160 John St.
*Wiarda & Co., John C., 273 Green St.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
Zobel Color Works, Inc., 95–127 Ninth St.
N. Y., Buffalo
Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Fertilizer Works, Marine Natl. Bank Bldg.
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Buffalo Gas Co.
Buffalo Potash & Cement Corporation, Buffalo Union Furnace Co.
Cataract Refining & Mfg. Co.
Century Mfg. Co., 272 W. Genesee St.
Century Varnish Co., 272 W. Genesee St.
Cling-Surface Co.
Contact Process Co., P. O. Drawer 98.
Dold Packing Co., Jacob, 745 William St
Eastern Oil Co., Fidelity Bldg.
Empire Drug Co., 86 Seneca St.
Hayman & Co., M. E., Ferry and N. Y. Central Railroad
Hoefner & Sons, A., 160 Van Rensselaer St.
Kellogg & McDougall
Kellogg Products Co.
Lackawanna Steel Co.
Larkin Co.
Longman & Martinez, 207 Pearl St.
Mann Bros. Co., 332 Ohio Ave.
Oneida Lime Co., Ltd., Peoples Bank Bldg.
Pratt & Lambert, Inc., 75–97 Tonawanda St.
Scnoellkopf Aniline & Chemical Works, Inc.
Slade Co., Chas. F., 36–38 Washington St.
Spencer, Kellogg & Sons, Inc.
Wolff Hide Co., 32 Lloyd St.
Wood Products Co.
N. Y., Chauncey (Westchester Co.)
Stauffer Chemical Co.
N. Y., Cook's Falls
Beaverkill Dye Works
N. Y., Corning
Corning Glass Works
N. Y., Cortland
Ekenberg Co., The
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Geneva
Empire Coke Co.
N. Y., Glens Falls
Ames Chemical Works, 21 Sherman Ave.
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., Gouverneur
Ontario Talc Co.
N. Y., Hastings-on-Hudson
Zinsser & Co.
N. Y., Hobart
Sheffield By-Product Co.
N. Y., Jones Point
Kaolin Products Co.
N. Y., Kingston
Nitrated Chemicals Co.
Nitro Powder Co.
N. Y., Lackawanna
Lackwanna Steel Co.
N. Y., Leroy
Empire Powder Corporation
Genesee Pure Food Co.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Inc., Chr.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., Long Island City
American Druggists Syndicate
Horn Holland Co., Horn Bldg.
Oakes Mfg. Co.

N. Y., Long Island City—cont.
Smith & Co., Edw.
United States Dye Extracts Co., Inc.
N. Y., Mechanicsville
Werner Extract Co.
N. Y., Methol
Leighton Co., Arthur
N. Y., Monticello
Mont Color & Chemical Co.
Synfleur Scientific Laboratories
N. Y., Newark
Stuart & Co., C. H.
N. Y., New Lebanon
Tilden Chemical Co.
N. Y., New York City
Ackerman Co., H. R., 65 Fulton St.
Acme Diamond Tool Co., 56 Liberty St.
Adler Color & Chemical Works, 100 William St.
Aetna Chemical Co., Inc., 120 Broad way
Air Reduction Sales Co., Inc., 120 Broadway
Albany Lubricating Co., 708–710 Washington St.
Alberene Stone Co., 223 E. 23d St.
Alcohol Utilities Co., 40 Exchange Pl.
*Alexander & Co., Inc., G. S., 61 Broadway
*Allied Chemical Exchange, Inc., 95-97 Liberty St.
Alpha Chemical Works, Inc., Woolworth Bldg.
Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
American Agricultural Chemical Co., 2 Rector St.
American Aniline Products, Inc., 15 E. 12th St.
American Carbonate Co., 430 E. 19th St.
American Coal Products Co., 17 Battery Pl.
American Color Mfg. Co., 98 Park Pl.
American Condiments Co., 44 Vesey St.
American Cotton Oil Co., 65 Broadway
American Cyanamid Co., 511 5th Ave.
*American Distributing Co., 750 Washington St.
American Dyewood Co., 80 Maiden Lane.
American Edible Oils Co., 171 Duane St.
American Hard Rubber Co., 9 Mercer St.
American Linseed Co., Woolworth Bldg.
American Maize Products Co., 135 William St.
American Metal Co., Inc., 61 Broadway
American Smelting & Refining Co., 120 Broadway
American Steel Co., 61 Broadway
American Synthetic Dyes Co., Inc., 61 Broad St.
*American Trading Co., 25 Broad St.
Anderson & Co., P. E., 99 John St.
Androvette & Townsend, 235 Water St.
Aniline Dyes & Chemicals, Inc., Cedar and Washington Sts.
Ansbacher Insecticide Co., Inc.
Apex Chemical Co., Inc., 63 Park Row
Arabol Mfg. Co , 100 William St.
Archibald & Lewis Co., 124 Front St.
Argentine Quebracho Co., 17 Battery Pl.
Arlington Co., The, 725–727 Broadway
Arnhold, Karberg & Co., 21 State St.
Arnold, Hoffman & Co. Inc., 61 Broadway
Arnold & Zeiss, 277 Broadway
Asphalt Construction Co., 208 Broadway
*Associated Producers Co., 11 Broadway
Atlantic Turpentine Co., 175 Front St.
Atlantic White Lead & Linseed Oil Co., 111 Broadway
Babbitt, B. T., 11 Broadway
*Bachmeier & Co., Inc., 438 W. 37th St.
Baeder, Adamson & Co., 67 Beekman St.
*Baker & Bro., H. J., 81 Fulton St.
Baker & Co , 30 Church St.
Balfour, Williamson Co., 43 Exchange Pl.
Baltic Chemical Co., 183 Duane St.
Barrett Co., 17 Battery Place.
Battelle & Renwick, 80 Maiden Lane
Bauer & Black, 104 E. 25th St.
Bauer Chemical Co., Inc., The, 30 Irving Pl.
Bauer, Philip Co., 68 Broad St.
Bayer Co., The, 117 Hudson St.
*Beer Sondheimer & Co., Inc., 61 Broadway
Beggs & Co., E. J., 92 William St.
*Behrend, F., 54 Front St.
Belden & Co., A. G., 145 Maiden Lane
Benham & Noyes, 10 Broadway
Benzo Chemical Co., 39 Cortlandt St.
Berlin Aniline Works, 213 Water St.
Berry Bros., 262 Pearl St.
*Bichels & Techow, 98 Maiden Lane, New York City
Bielenberg Co., Inc., A., 67–69 Front St.
Binney & Smith Co., 81 Fulton St.
*Bischoff & Co., C., Inc., 451 Washington St.

N. Y., New York City—cont.
Blanchard Co., J. A., 30 Church St.
Bloch Chemical Co., 67 Fifth Ave.
Bon Ami Co., 17 Battery Pl.
Borne-Scrymser Co., 80 South St.
Bowker Chemical Co., 60 Trinity Pl.
*Boyer Oil Co., Inc., 29 Broadway
Brandes Chemical Co., 8th Ave and 34th St.
Brandes Co., The, 8th Ave. and 34th St.
Brassord Co., Inc.
Bredt & Co., F., 240 Water St.
Britt, Loeffler & Weil, 255 Canal St.
Bromund Co., E. A., 356 W. Broadway
Brunn & Co., A. W., Produce Exchange Annex.
Burroughs & Co., James S., 56 Pine St.
Butler Chemical Co., 25 Beaver St.
Bush & Co., Inc., W. J., 100 William St.
*Bush, Beach & Gent, Inc., 80 Maiden Lane
Butterworth-Judson Corporation, 61 Broadway
Calman & Co., Emil, 100 William St.
Calco Chemical Co., Woolworth Bldg.
Camden Chemical Co., 42 Broadway
*Campbell, C. W., 3 Cliff St.
*Canada Carbide Sales Co., Inc., 30 Church St.
Campbell & Co., John, 75 Hudson St.
Carbondale Calcium Co., 50 Church St.
Casella Color Co., 182 N. Front St.
Casey Co., John A., 144 Maiden Lane
Celite Products Co., 11 Broadway
Celluloid Co., 30 Washington Place
Celluloid Zapon Co., 200 Fifth Ave.
*Century Colors Corporation, 182 Front St.
*Chacon Trading Co., 82-92 Beaver St.
Chaskel Chemical Works, 265 W. Broadway
Chemical Co. of America, Inc., 176 Front St.
*Chemical Importing & Mfg. Co., 90 West St.
Chemical Mfg. Co., 48 Gold St.
Chipman Chemical Engineering Co., 95 Liberty St.
Chiris Co., Antoine, 20 Platt St.
Chromos Chemical Co., Inc., Aeolian Hall
*Chrystal, Chas. B., 11 Cliff St.
Church & Dwight Co., 27 Cedar St.
Clare Mfg. Co., 8th Ave. and 34th St.
Clinchfield Products Co., 120 Broadway
Coe-Mortimer Co., 51 Chambers St.
Coignet Chemical Products Co., Inc., 17 State St.
Columbia Chemical Works, 11 Broadway
*Columbia Naval Stores Co., 17 Battery Place.
*Cone, Fredk. H., 176 Front St.
Consolidated Color & Chemical Co., 122 Hudson St.
Consolidated Dental Mfg. Co., 130 Washington Pl.
*Consumers Chemical Corporation, 24 Broad St.
Cook Oil Co., N. B., 148 Front St.
Cook's Sons, Adam, 708 Washington Ave.
Cooper & Co., Chas., 194 Worth St.
Cooper & Cooper, 309 Broadway
Corn Products Refining Co., 17 Battery Pl.
Corrizo Extract Co., 211-215 W. 20th St.
Cosmic Aniline Works, Inc., 8 W. Broadway
*Coulston & Co., J. W., 80 Maiden Lane
Croeniger & Co., 99 Wall St.
Croton Chemical Co., 14 Cedar St.
*Dana & Co., 111 Broadway
Davids Co., Thaddeus, 95 Vandam St.
DeBrook Co., Inc., 135 William St.
Delbrook Co., 135 William St.
*De Lisser & Co., 457 W. 26th St.
*DeRonde & Co., Abram, 228 Front St.
DeVoe, F. W. & C. T. Raynolds Co., Fulton and Williams Sts.
Diamond Drill Carbon Co., 53-63 Park Row
Diamond Gelatine Co., 127 Water St.
Dicks, David Co., Inc., 302 Broadway
*Dicks, David & Bradfoot, Inc., 302 Broadway
Dickerson, Van Dusen & Co., 32 Cliff St.
Dodge & Olcott Co., 87 Fulton St.
*Doggett, Stanley, John and Cliff Sts.
*Doherr, Grimm & Co., 87 Gold St.
*Dorl & Co., F., Park Row Bldg.
*Downes & Co., Inc., 102 Fulton St.
Drakenfeld & Co., B. F., 50 Murray St.
*Drug & Dyestuff Corporation, 120 Broadway
Duche & Sons, T. M., 554 Broome St.
*Dunn & Kruse, 53 Park Row
Dupont Chemical Works, 120 Broadway
Durex Chemical Co., 320 Fifth Ave.
Durkee & Co., E. R., 534 Washington St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Eagle Color & Chemical Co., 4 Cedar St.
*Earle, E. P., 165 Broadway

N. Y., New York City—cont.
*Echavarria & Co., 8 Bridge St.
Edgertyn Aniline Corp., 118 William St., New York City
Edison International Corporation, 165 Broadway
Egyptian Lacquer Mfg. Co., 152 Front St.
Eimer & Amend, Third Ave., 18th to 19th Sts.
Eissing Chemical Co., 225 Fifth Ave.
*Elbert & Co., Produce Exchange
Electro Bleaching Gas Co., 18 E. 41st St.
Electro Metallurgical Co., 42d St. Bldg.
Empire Laboratory Supply Co., Inc., 218 E. 37th St.
Erkenbrach Co., Geo A., 115 Maiden Lane.
*Ernken Chemical Co., 175 South St.
European Color & Chemical Co., 154 Nassau St.
*Fairbanks, Morse & Co., 30 Church St.
Fairchild Bros. & Foster, 74 Laight St.
Fann & McJunkin, 50 E. 41st St.
Farbwerke-Hoechst Co., 122 Hudson St.
Farrell, William J., 115 Maiden Lane
*Farquhar, H. D., 230 W. 17th St.
Federal Dyestuff & Chemical Co., 2 Rector St.
Feuchtwanger & Co., Inc., L., 54 Fulton St.
Fleischmann Co., 699 Washington St.
Florasynth Laboratories, Inc., 231 Pearl St.
Foamite Fire Extinguisher Co., 200 Fifth Ave.
*Fougera & Co., E., 90 Beekman St.
Franco-American Chemical Co., Inc., 8 Gold St.
*Franco-Swiss Colours Co., 61 Broadway
*Freeman & Co., R. B., 96 Wall St.
Freeport Sulphur Co., 61 Broadway
*Fries & Fries, 121 W. 3rd St.
*Fritzsche Bros.. 82 Beekman St.
*Fuerst Bros. & Co., 2 Stone St.
*Fuller & Co., Ralph L., 2 Rector St.
*Gabriel & Schall, 205 Pearl St.
*Geisenheimer & Co., 134 Cedar St.
General Bakelite Co., 2 Rector St.
General Chemical Co., 25 Broad St.
*General Naval Stores Co., 90 West St.
General Rubber Co., Broadway and 58th St.
Georgia Pine Turpentine Co. of New York, 160 Perry St.
Gillespie & Sons, L. C., 6 Fletcher St.
*Gough Co., Wallace L., 10 Bridge St.
*Gould Commercial Co., 22 Whitehall St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
*Grace & Co., W. R., 1 Hanover Sq.
*Graham, Hinkley & Co., 135 Front St.
Gray & Co., Wm. S., S. Maiden Lane
Greeff & Co., Inc., R. W., 80 Maiden Lane
Griffiths Co., Inc., K. F., 81 Fulton St.
*Grosche & Co., Bruno, 15 Jones Lane
*Gross & Co., Geo. V., 30 Old Slip St.
*Guiterman, Rosenfeld & Co., 35 S. William St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
*Haberman, Joseph, 526 11th Ave.
*Hagemeyer & Brunn, Produce Exchange
*Halle-Perris Trading Corporation, 24 State St.
*Hammill & Gillespie, 240 Front St.
Hanover Drug Co., 30 Cliff St.
*Hardy, Charles, 50 Church St.
*Haring, Ellsworth, 114–118 Liberty St.
*Harris & Co., A. W., 400 Greenwich St.
Harshaw, Fuller & Goodwin Co., 100 William St.
*Harvey & Outerbridge, 11 Broadway
Heine & Co., 7 Platt St.
Hellenic Chemical & Color Co., Inc., 1 Cedar St.
*Heller, Hirsh & Co., 62 William St.
Heller & Merz Co., 505 Hudson St.
*Hemingway, Inc., Frank I., 82 Beaver St.
Hemingway & Co., Ltd., 1 Broadway
*Hendricks Bros., 49 Cliff St.
*Herman & Herman, Inc., 6 Church St.
Herrick-Voigt Chemical Corporation, 1 Liberty St.
Hewitt & Co., C. B. 48 Beekman St.
Heyden Chemical Works, 135 William St.
*Heymann, W. H., 438 E. 59th St.
*Hill & Sons, Edw., 64 Wall St.
Hillier's Son & Co., R., 100 William St.
Hirsch & Schofield, Inc., 50 Broad St.
*Hirsh & Co., Chas. L., 16 Pearl St.
*Hirsh & Son, L., 368 Greenwich St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Holliday-Kemp Co., Inc., 90 William St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
Holz, Herman A., 1 Madison Ave.
Hooker Electrochemical Co., 40 Wall St.
*Hopkins & Co., J. L., 100 William St.
*Horner, James B., 3 Platt St.

N. Y., New York City—cont.

*Huber, J. M., 65 W. Houston St.
*Huisking, Inc., Chas., 5 Platt St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette St.
*Hutchinson, D. W., 94 John St.
*Import Chemical Co., 276 Water St.
*Independent Chemical Co., 122 West St.
Independent Salt Co., 44 Whitehall St.
Indian Refining Co., 17 Battery Pl.
Industrial Chemical Co., 200 Fifth Ave.
*Innis, Speiden & Co., 46 Cliff St.
International Agricultural Corporation, 165 Broadway
International Alcohol Corporation
International Nickel Co., 43 Exchange Place
International Pulp Co., 41 Park Row
International Smokeless Powder & Chemical Co., 140 Cedar St.
Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
*Job & Co., W. & S., 68 Broad St.
*Johns & Co., Inc., 50 Church St.
Johnson & Johnson, 100 William St.
Johns-Manville Co., H. W., Madison Ave. and 41st St.
*Jones Chemical Co., E. F., 51 Jay St.
*Jordan, William E., 11 Cliff St.
Kalbfleisch Corporation, 31 Union Sq., W.
Kalle & Co., 530 Canal St.
Kasebier-Chatfield Shellac Co., 175 Pearl St.
Katzenbach & Bullock Co., 100 William St.
Kelly Graphite Mills, 534 W. 22d St.
*Kern Commercial Co., 114 Liberty St.
*Ketchum & Co., 65 Fulton St.
*Kley, Inc., 39 Cortlandt St.
Klipstein & Sons Co., A., 644 Greenwich St.
Knowles, Bradley & Co., 88 Wall St.
Kohnstamm & Co., H., 87 Park Pl.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lamson & Bro., Inc., John L., 80 Maiden Lane
L. & R. Organic Products Co., Inc., 27 Thames St.
*Laranburg, Fred L., 100 William St.
*Larendon, M. W., 82 Wall St.
*Lascelles & Co., A. S., 10 Bridge St.
*Lathrop & Co., Inc., H. R., 200 Water St.
*Lavanburg, Fred, 100 William St.
*Leaman, W. & A., 14 State St.
*Leavitt & Co., C. W., 30 Church St.
Lederle Laboratories, 39 W. 38th St.
*Leggett & Bro., 301 Pearl St.
Lehn & Fink, Inc.,.120 William St.
*Lengfelt & Co., F. H., 100 Maiden Lane
Lenz Apparatus Co.
Leslie, E. H., 27 William St.
Lieber & Co., Inc., H., 14 Platt St.
Linde Air Products Co., 30 E. 42d St.
L. &. R. Organic Products Co., Inc., 27 Thames St.
Lister Agricultural Chemical Works 2 Rector St.
*Lockwood, Brackett & Co., 949 Broadway
*Longman & Martinez, 207 Pearl St.
*Lueders & Co., Geo., 218 Pearl St.
*Maas & Waldstein Co., 100 William St.
Mackay, A. D., 130 Pearl St.
Madero Bros., Inc., 115 Broadway
*Magnus, Maybee & Reynard, 257 Pearl St.
Malt-Diatase Co., 79 Wall St.
*Manning-Loeb Co., 50 Church St.
*Mapes Formula & Peruvian Guano Co., 143 Liberty St.
Marden, Orth & Hastings Corporation, 61 Broadway
*Marell Chemical Co., The, 25 Beaver St.
Marks Dye Mfg. Co., Inc., 484 Broadway
Marx & Rawolle, Inc., 100 William St.
*Matthews, John, 333 E. 26th St.
*Maurer, Edw., 80 Maiden Lane
*McCotter & Co., S. G., 16 Platt St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Mertz & Co., H. A., 122 Hudson St.
Metal & Thermit Corporation, 120 Broadway
*Meyer, G. A. & E., 59 Maiden Lane
*Meyer & Brown, 35 S. William St.
Middlesex Aniline Co., Inc., 149 Broadway
Miller, J. Augustus, 233 Broadway
Milligan & Higgins Glue Co., 17 State St.
*Mitsui & Co., 25 Madison Ave.
Monmouth Chemical Co., 106 Wall St.
Monx Color & Chemical Co., 90 Wall St.
Monsanto Chemical Works,
Morana Compagnie, 184 Fifth Ave.
Morgan's Sons, E., 439 West St.
*Morningstar & Co., C., 233 Broadway
*Mortimer & Co., 68 Beaver St.
Mutual Chemical Co., of America, 55 John St.

N. Y., New York City—cont.
Nassau Smelting & Refining Works, 607 W. 29th St.
National Ammonia Co., 30 Platt St.
National Aniline & Chemical Co., Inc., 21 Burling Slip
National Carbon Co., Inc.
National Color & Chemical Works, 59th St. and 11th Ave.
National Gum & Mica Co., 59th and 11th Ave.
National Lead Co., 111 Broadway
National Milk Co., 11 Pine St.
National Milk Sugar Co.
National Oil Products Co., 220 Broadway
National Paint Works, 100 William St.
National Rosin Oil & Size Co., 90 West St.
National Zinc Co., 61 Broadway
New Jersey Asbestos Co., 1 Water St.
New Jersey Products, Inc., 165 Broadway
New Jersey Zinc Co., 160 Front St.
New Process Chemical Co., Inc., 39 Cortlandt St.
New York Color & Chemical Co., 212 Pearl St.
New York Commercial Co., 20 Vesey St.
*New York Quebracho Co., 80 Maiden Lane
New York Quinine & Chemical Works, Ltd., 114 William St.
Niagara Coke Corporation, 6 Church St.
Nichols Copper Co., 25 Broad St.
*Nitrate Agencies Co., 104 Pearl St.
North Atlantic Metal Corporation, 29 Broadway
Norton Laboratories, 296 Madison Ave.
Nucoa Butter Co., The, 133 Front St.
Oakland Chemical Co., 10 Astor Pl.
*Obalski & Sweeney, 24 Stone St.
Organic Products Corporation, 469 State St.
*Osborn Co., C. J., 132 Nassau St.
*Oxford Tripoli Co., 11 Broadway
Pacific Coast Borax Co., 100 William St.
*Palo Co., 90-94 Maiden Lane
Parex Mfg. Co., 249 Pearl St.
Pasteur Laboratories, 366 W. 11th St.
*Patterson, Boardman & Knapp, 10 Bridge St.
*Patterson & Co., G. W. S., 133 Front St.
Peace Dale Phosphate Mining Co., 2 Rector St.
*Peek & Velsor, 9 Gold St.
Pennsylvania & Delaware Oil Co., 90 West St.
Perfenol Products Co., Inc., 39 W. 38th St.
Perolin Co. of America, Woolworth Bldg.
Perth Amboy Chemical Works, 100 William St.
*Peters, White & Co., 55 John St.
Petroleum Products Co., 51 Front St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Pfizer & Co., Chas., 81 Maiden Lane
*Philipp Bros., Inc., 29 Broadway
Phosphate Mining Co., 55 John St.
Eagle-Picher Lead Co., 100 William St.
Platt & Washburn Refining Co., 11 Broadway
Plymouth Organic Laboratories, 65 Ann St.
Port Morris Chemical Works, 141 Locust Ave.
Prairie Pebble Phosphate Co., 165 Broadway
Pratt Co., 50 Church St.
Preservaline Mfg. Co., 854 Loumer St.
Prest-O-Lite Co.
Producers Chemical Corporation, 261 Broadway
Radium, Ltd., U. S. A., 2 W. 45th St.
Radium Luminous Material Corporation, 55 Liberty St.
Randell & Co., F. L., 197 Pearl St.
*Ransom Co., L. E., 279 Pearl St.
Raritan Copper Works
*Raw Products Co., 121 Front St.
Rector Chemical Co., 2 Rector St.
Reliance Aniline & Chemical Co., 299 Broadway
Rendrock Powder Co., 106 Wall St.
Reynolds & Devoe Co., 103 Fulton St.
*Richmond Products Co., 32 Broadway
*Riker, J. L. & D. S., 19 Cedar St.
Robbins Mining Co., A. A., 99 John St.
*Rockhill & Vietor, 22 Cliff St.
Roessler & Hasslacher Chemical Co., 100 William St.
Roger & Gallet, 25 W. 32d St.
Roger-Pyatt Shellac Co., 81 Water St.
*Rosin & Turpentine Export Co., 26 Cortlandt St.
Royal Chemical Co., 538 W. 53d St.
*Rubber Trading Co., 38 Murray St.
St. Lawrence Talc Co., Inc., 7 E. 42d St.
*Saklat & Co., A. H., 87 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
Saxe Chemical Co., 99 Nassau St.
*Schell Chemical Co., Inc., 56 Pine St.
Schell William H., 159 Maiden Lane
*Schering & Glatz, 150 Maiden Lane
*Schieffelin & Co., 170 William St.
Schnapper Chemical Co., 192 N. Clark St.
*Schwenker, Inc., W. M., 340 E. 92d St.

N. Y., New York City—cont.

Seabury & Johnson, Inc., 59 Maiden Lane
*Sealy, Thomas, 142 Front St.
Segal & Co., Inc., George H., 95 William St.
*Seligmann, Arthur, 165 Broadway
*Sembrada & Co., J. S., 129 Front St.
*Sergeant & Co., E. M., 95 Madison Ave.
Sharpe & Dohme, 41 John St.
*Simeon & Elting, 93 Nassau St.
Sinclair & Valentine Co., 611 W. 129th St.
*Sloan & Russell, Inc., 132 Nassau St.
*Smith & Co., J. Lee, 23 Jacob St.
*Soltau & Co., Robert, 75 John St.
Sonneborn Sons, L., 262 Pearl St.
Southern Cotton Oil Co., 120 Broadway
Southern Cotton Oil Co., 24 Broad St.
Southern Oil & Chemical Co., 15 Park Row
Squibb & Sons, E. R., 80 Beekman St.
*Stallman Co., 229 Pearl St.
Stamford Mfg. Co., 88 Wall St.
Standard Aniline Co., 366 Fifth Ave.
Standard Color Works, 55 Liberty St.
Standard Distilling & Distributing Co., 27 William St.
Standard Oil Co., 26 Broadway
Standard Wax & Import Co., 95 William St.
*Stanley, Jordan & Co., 116 Broad St.
Star Extract Works, 8 W. Broadway
Stein, Hall & Co., 66 Broadway
*Stillwell Co., A. A., 28 Cliff St.
*Strahl & Pitsch, 141 Front St.
*Strohmeyer & Arpe Co., 139 Franklin St.
*Sundheimer, Henry, 35 Nassau St.
*Swan & Co., A. G., 135 Front St.
Swan & Co., Alden S., 133 Front St.
Swan & Finch Co., 151 Maiden Lane
Suzuki & Co., S., 220 Broadway
Synthetic Chemical Works, 2 Rector St.
Synthetic Color Co., 2403-5 Singer Bldg.
*Taft & Co., J. H., 100 William St.
*Taintor Mfg. Co., H. F., 2 Rector St.
*Takamine Commercial Corporation, 120 Broadway
Takamine Laboratory, Inc.
Tartar Chemical Co., 135 William St.
*Taylor Commission Co., Geo. F., 80 Pine St.
*Tennant Sons & Co., C., 100 William St.
Texas Co., 17 Battery Pl.
Texas Gulf Sulphur Co., 50 E. 42d St.
Thurston & Braidick, 130 William St.
*Tieman & Co., M. F., 100 William St.
Tidewater Oil Co., 11 Broadway,
Toch Bros., 320 5th Ave.
Transatlantic Chemical Corporation, 192 Broadway
Uchida Trading Co., Ltd., The, 120 Broadway
*Ulrich & Co., Paul, 11 Cliff St.
Ultramarine Co., 38 Park Row
Ungerer & Co., 273 Pearl St.
Union Carbide Co., 42d St. Bldg.
Union Seed & Fertilizer Co., 65 Broadway
Union Sulphur Co., 17 Battery Pl.
Union Talc Co., 132 Nassau St.
United Aniline & Chemical Works, Inc., 377 Broadway
United Dyewood Corporation, 80 Maiden Lane
United Lead Co., 111 Broadway
U. S. Color & Chemical Co., 93 Broad St.
United Naval Stores Co., 130 Pearl St.
U. S. Alloys Corporation, 30 E. 42d St.
U. S. Asphalt Refining Co., 90 West St.
U. S. Industrial Alcohol Co., 27 William St.
United States Industrial Chemical Co. 27 William St.
U. S. Metal Refining Co., 42 Broadway
U. S. Rubber Co., 1790 Broadway
United States Smelting, Refining & Mining Co., Inc., 120 Broadway
U. S. Talc Co., 41 Park Row
U. S. Varnish Co., 41 Park Row
United Zinc Smelting Corporation, 99 John St.
Vacuum Oil Co., 61 Broadway
Valentine & Co., 456 4th Ave.
Valvoline Oil Co., Inc. 11 Broadway
*Van Brunt & Co., J. A., 114 John St.
*Van Dyk, L. A., 90 W. Broadway
Virginia Electrolytic Co., 99 Cedar St.
Vulcanized Rubber Co., 251 4th Ave.
*Waddell & Co., R. J., 52 Beekman St.
Wak Chung Mining & Smelting Co., Woolworth Bldg.
*Waldo, E. M. & F., 11 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
*Warner-Quinlan Asphalt Co.
Warren Chemical & Mfg. Co., 17 Battery Place
Webb & Son, James A., 50 Stone St.
*Welch, Holme & Clark Co., 381 West St.
*Wessel, Duval & Co., 25 Broadway
West Disinfecting Co., 411 Fifth Ave.
West Indies Chemical Works, 80 Maiden Lane
Wetterwald & Pfister Co., 34 W. 33d St.
*Weymouth, Ralph W., 111 Broadway
White Star Co., 6 Cliff St.

N. Y., New York City—cont.
White Tar Co., 6 Cliff St.
White Co., T. & S. C., 100 William St.
*Whittaker Co., W. H., 252 Front St.
*Wilckes-Martin-Wilckes Co., 135 William St.
*Williams & Son, Inc., John T., 100 Broadway
Williams Mfg. Co., 1947 1st Ave.
Williamson & Co., 120 Broadway
Williamson & Co., D. D., 86 Fulton St.
*Wilson & Co., 45th and 1st Ave.
*Wing & Evans, 22 William St.
*Wiseman & Co., Charles, 105 Hudson St.
Wolff, Harry W., 50 E. 41st St.
*Wood, Inc., J. Early, 21 Platt St.
Woolf Laboratories
Wright Chemical Corporation, 38 Park Row
*Zinkheisen & Co., 135 William St.
Zinsser & Co., Wm., 195 William St.
Zobel Color Works, Inc., 95–127 Ninth St.
Zobel Co., Inc., Ernest, 38 Water St.

N. Y., Niagara Falls
Acheson Graphite Co.
American Magnesium Corporation
Carborundum Co.
Castner Electrolytic Alkali Co.
Electro Metallurgical Co.
Hooker Electrochemical Co.
National Electrolytic Co., Hydraulic Canal Basin
Niagara Alkali Co., Buffalo Ave. and Union St.
Niagara Smelting Corporation
Titanium, Alloy Mfg. Co.
Titanuim Pigment Co., Inc.

N. Y., Norwich
Norwich Pharmacal Co.

N. Y., North Tonawanda
Riverside Chemical Co., 1194-96 Oliver St.
Synthetic Products Co.

N. Y., Olean
Lackawanna Chemical Co.

N. Y., Ossining
Ossining Chemical Works

N. Y., Owego
American Casein Co.
National Casein Co.

N. Y., Pearl River
Lederle Antitoxin Laboratory

N. Y., Peekskill
Fleischmann Mfg. Co
Mackellar's Sons Co., R.

N. Y., Penn Yan
Taylor Chemical Co.

N. Y., Perth Amboy
National Synthetic Co.

N. Y., Port Chester
Mallory & Co., Inc., P. R.

N. Y., Rochester
American Photo. Chemical Co., Inc. 26 Forbes St.
Bausch & Lomb Optical Co.
Eastman Kodak Co.
General Filtration Co., Inc., Cutler Bldg.
Shinola Co., 8–28 Jay St.
Smith Co., J. Hungerford
Vacuum Oil Co.

N. Y., Rosebank
Austen Mfg. Co., Perry
Dreyfus Co., L. A.
Siegle Co., G.

N. Y., Saratoga Springs
Harvey & Co., G. F.

N. Y., Schenectady
Mohawk Gas Co.
Organic Products Corporation

N. Y., Solvay
Solvay Process Co.

N. Y., Syracuse
*Gowing & Co., D. H., 242 W. Jefferson St.
Porter & Clancy, 200 James St.
Rosebrugh Chemical Corporation, 1618 N. Salina St.
Semet-Solvay Co.
Solvay Process Co.
Will & Baumer Co.

N. Y., Troy
Eddy's Titus, Son
Thompson Sons & Co., John L.

N. Y., Waterloo
Industrial Distilling Co.

N. Y., Wappingers Falls
Standard Aniline Products, Inc.

N. Y., Yonkers
Palisade Mfg. Co.

N. C., Asheville
Betts & Co., Anson G.
Georgia Talc Co.

N. C., Bessemer City
Lawton, Chas. L.

N. C., Dillsboro
Harris Clay Co.

N. C., Raleigh
Caraleigh Phosphate & Fertilizer Co.

N. C., Stackhouse
Carolina Barytes Co.
Gahagan, B. W.
Stackhouse, A. & C.

N. C., Wilmington
Acme Mfg. Co.
National Wood Products Co.
Navassa Guano Co. of Wilmington
Spirittine Chemical Co.

Ohio, Akron
Akron Varnish Co.
Buckeye Chemical Co.
Faultless Rubber Co.
Goodyear Tire & Rubber Co.

Ohio, Amherst
Briggs Chemical Works Co.
Ohio, Barberton
Columbia Chemical Co.
Ohio, Bedford
Franklin Oil & Gas Co.
Ohio, Cincinnati
Alexander Co., M. H., 226 E. Front St.
American Chemical Co., 642 Carr St.
American Diamalt Co., 419 Plum St.
Ault & Wiborg
Berghausen Chemical Co., E., 307 E. 2d St.
Buchanan Products Co., C. G., 118 E. Pearl St.
Buckeye Cotton Oil Co.
Burckhardt Co., 525 Eggleston St.
Carey Co., Philip
Chatfield Mfg. Co., 3d and Plum Sts.
Cincinnati Abattoir Co., 3241 Spring Grove Ave.
Cincinnati Extract Works Co., 226 E. Pearl St.
Cincinnati Oil Works Co., 525 Eggleston Ave.
Clifton Springs Distilling Co., Station "A"
Drackett & Sons Co., P. W., 5020 Spring Grove Ave.
Eddy Chemical Co., 1014 Eliza St.
Elkhorn Chemical Co., Elsinore and Gilbert Aves.
Elkhorn Mining & Mfg. Co., 58 Main St.
Fleischmann Co., 419 Plum St.
Frank Tea & Spice Co., 716 E. 3d St.
Fries & Fries, 1501-13 W. 6th St.
Gates Aniline Products Co.
Globe Chemical Co., 1135 Regent Ave.
Globe Chemical Co., 1205 Regent Ave.
Harkness & Cowing Co., Murray Ave. and Carthage Peak
Jarecki Chemical Co.
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Kalmus Chemical Co., Kalmus Bldg.
Lloyd Bros., Plum and Court Sts.
Moore Oil Co., York and McLean Ave.
Moser Co., Chas., 215 E. 9th St.
Prince Co., L. M., 108 W. 4th St.
Proctor & Gamble Distributing Co., Gwyne Bldg.
Union Distilling Co., 3d and Race Sts.
Walsh & Co., Jas., Union Trust Bldg.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Atlantic Paint Co., Bessemer Ave. and P. R. R.
Atlantic Refining Co., Garfield Bldg.
Atlas Oil Co., Rose Bldg.
Brooks Oil Co., 3304 E. 87th St., S. E.
Canfield Oil Co.
Chemical Supply Co.
Clark Co., F. G., 1099 W. 11th St., N. W.
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
Columbia Graphite Co.
Consumers' Rubber Co., 829 Superior Ave., N. W.
Dover By-Products Coke Co., Leader-News Bldg.
Fleming Chemical Co., The, 1711 Crawford Road
Forest Paint & Varnish Co., 3334 Lakeside Ave.
Glidden Varnish Co., Madison Ave.
Globe Refining Co., Rose Bldg.
Grasselli Chemical Co., Arcade Bldg.
Grasselli Powder Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Lennox Chemical Co., 1201 E. 55th St.
National Carbon Co., Madison & Highland Aves.
National Refining Co., Rose Bldg.
National Smelting Co., 6800 Grant Ave.
New England Quartz Co., 150 Nassau St.
Northern Chemical Co., W. 70th, near Detroit Ave., N. W.
Northern Oil Co., Rose Bldg.
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Paragon Refining Co.,
River Furnace Co.
Sherwin-Williams Co., 601 Canal Road
Smith Co., Werner G., Hird and Detroit Sts.
Stowe Fuller Co., Rockefeller Bldg.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Vulcan Refining Co., Williamson Bldg.
Warren Refining & Chemical Co.
Youngstown Sheet & Tube Co.
Ohio, Columbus
Aetna Graphite Co.,
Farmers Fertilizer Co.
Harshaw, Fuller & Goodwin Co.
*Laboratory Supply Co., 236 N. 3d St.
Smith Agricultural Chemical Co.,
Ohio, Dayton
Economy Soap Products Co.
Electro Chemical Co.
Lowe Bros. Co.,
Ohio, Dover
Dover By-Products Coke Co.
Ohio, Findlay
Ohio Oil Co.

Ohio, Fostoria
Sterisol Co., The, 110-112 E. South St.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Jackson
Globe Iron Co.,
Ohio, Lockland
Carey Mfg. Co., Philip
Ohio, Marietta
Marietta Torpedo Co.,
Northwestern Chemical Co.,
Obex Co., The
Ohio, Medina
Root Co., A. I.
Ohio, Mineral City
Progressive Rubber Co.
Ohio, Newark
Styron-Beggs Co., The
Ohio, Niles
National Sand & Stone Co.
Ohio, Pomeroy
Graclif Chemical Co.
Pomeroy Salt Association Co.
Ohio, St. Bernard
Werk Co., The M., Murray Ave.
Ohio, Sandusky
Hord Color Products Co., The
Jarecki Chemical Co.
Kroma Color Co.
Syn Galenic Chemical Co.
Ohio, Steubenville
La Belle Iron Works
Ohio, Toledo
Craig Oil Co.
Metzger Seed & Oil Co.,
Paragon Refining Co.
Sinclair Mfg. Co.
Sun Co.
Toledo-Owens Glass Sand Co.,
Toledo Seed & Oil Co.,
Toledo Stone & Glass Sand Co.
Yaryan Naval Stores Co.
Ohio, Warren
Goheen Mfg. Co., Main St.
Ohio, Wickliffe
Clarke Chemical Co., St. Clair St.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co.
Youngstown Chemical Co., Sycamore St.
Youngstown Sheet & Tube Co.
Ohio, Zanesville
Agnew Torpedo Co.
Okla., Bartlesville
Indian Territory Illuminating Oil Co.
Okla., Chelsea
Chelsea Refining Co.
Okla., Muskogee
Muskogee Refining Co.
Okla., Oklahoma City
Bowers & Co., O. C., 23 Rena Ave.
Okla., Okmulgee
American Refining Co.
Okla., Sapulpa
Phoenix Refining Co.
Sapulpa Refining Co.
Okla., Tulsa
Cosden & Co., Inc.
Empire Refineries, Inc., Unity Bldg.
Okla., Vinita
Milliken Refining Co.
Okla., Wapanucke
Dale Mfg. Co., James E.
Ore., Portland
Oregon Wood Distilling Co.
Portland Gas & Coke Co.
Pa., Allentown
Allentown Mfg. Co., The
Pennsylvania Trojan Powder Co.
Princess Metallic Paint Co.
Pa., Ambler
Keasbey & Mattison Co.
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Bradford
American Acid & Alkali Co.
American Alkali & Acid Co.
Emery Mfg. Co.
Kendall Refining Co.
Nusbaum Chemical Co.
Pa., Carbondale
Carbondale Calcium Co.
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., Easton
Baker & Adamson Chemical Co.
Papermakers Chemical Co.,
Williams & Co., C. K.
Pa., East-Smithport
Norwich Chemical Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Pa., Erie
Bayerson Oil Works
Hammermill Paper Co.
Watson Co., H. F.
Pa., Fernwood
Moaoc Co., Inc.
Pa., Fort Washington
Columbia Chemical Constructive Co.
Pa., Franklin
Galena Signal Oil Co.
Pa., Freedom
Freedom Oil Works
Pa., Grassland, Del., County
Essential Oil Specialties Co., Inc.
Pa., Great Bend
Black Horn Leather Co.
Pa., Hanover
Acme Extract & Chemical Works
Young & Co., J. S., Park Ave.

Pa., Johnstown
Union Chemical & Refining Co.
Pa., Lancaster
Lancaster Chemical Co.
Pa., Latrobe
Vanadium Alloys Steel Co.
Pa., Lockhaven
Stanley Anilin Chemical Works
Pa., Malvern
Bishop & Co., [Platinum Works], J.
Pa., Marcus Hook
Viscose Co., The
Pa., Manayunk
Dye Products Co.
Pa., Marietta
Alexander & Co., H. M.
Pa., Mayburg
Tionesta Valley Chemical Co.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Pa., New Brighton
Brighton Chemical Co.
Thorkildsen-Mayer Co.
Pa., Philadelphia
Adams & Co., Jos. M., Main and Dupont Sts.
Air Reduction Co., Inc., Germantown and Sedgley Aves.
American Graphite Co. of Philadelphia, Land Title Bldg.
American Oxygen Co., Perry Bldg.
*Andreykovicz & Dunk, 58 N. Front St.
Ajax Metal Co., 46 Richmond St.
Atlantic Refining Co., 3144 Passyunk Ave.
Atlantic Turpentine & Refining Co., 600 Pennsylvania Square Bldg.
Barber Asphalt Paving Co., Land Title Bldg.
Barrett & Sons, Wm., 730 S. Broad St.
Baugh & Sons Co., 20 S. Delaware Ave.
Beckton Chemical Co., 3500 Grays Ferry Rd.
Betz & Son, Jno. F., 415 Callowhill St.
Bick & Undy, 49 S. Front St.
Boley Co., C. H., Randolph St. and Erie Ave.
Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Rd.
Cambria Steel Co., Widener Bldg.
Carbon Dioxide & Magnesia Co., N., 29th and Montgomery Ave.
Clawson Co., 240 Chestnut St.
Cooper & Co., T. G., 47-49 N. 2d St.
Crew-Levick Co., 111 N. Broad St.
Dermatological Research Laboratory
Dill & Collins Co., Richmond and Tioga Sts.
*Dougherty, E., Drexel Bldg.
Fels & Co., 73d St. and Woodland Ave.
*Ferguson Bros., 109 Chestnut St.
Fleming Chemical Co., 1711 Crasford Rd.
Foote Mineral Co., 107 N. 19th St.
*Fortner Co., L. B., 36-38 Strawberry St.
Franklin Mfg. Co.
French & Co., Samuel H., 4th and Callowhill Sts.
Fulmer & Apeldorn, 23 S. 9th St.
Graves Co., N. Z., 22 S. 3d St.
Hafleigh & Co., 2813 N. American Ave.
Hagstoz Co., T. B., 709 Sansom St.
Hamilton & Sons, Robt., 709 Tasker St.
Hance Bros. & White, 621 Callowhill St.
Harmer Laboratories Co.
Harrison Works, 35th and Grays Ferry Rd.
Hempstead & Sons, O. G., 41 S. 4th St.
Hoffman-Corr Mfg. Co.
Hollingsworth & Peterson, Lafayette Bldg.
Howell & Co., C. H., 212 Race St.
Hires Co., Chas. E., 6 S. 24th St.
Houghton & Co., E. F., 240 W. Somerset St.
*Jordan, Jr., W. H. & F., 218 N. Delaware Ave.
Kali Mfg. Co., 1408 Front St.
Keller, Robert, 334 N. 3d St.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Lavino & Co., E. J., Bullitt Bldg.
Lennig & Co., Chas., 112 S. Front St.
Lewis & Bros. Co., J. T., Lafayette Bldg.
Lucas & Co., John, 322 Race St.
*McIlvaine Bros., 1500 Hamilton St.
Mantua Chemical Co., 3500 Grays Ferry Rd.
Maxwell's Sons, Jno., 30th and Spruce Sts.
Merchant & Evans Co., 517 Arch St.
*Meyer & Sons, J., 480 Bourse Bldg.
Midvale Steel Co., Widener Bldg.
Mulford Co., H. K., 412 S. 13th St.
National Ammonia Co., Van Kirk and Delaware River
Northern Liberties Gas Co.
Ottens Mfg. Co., Henry H., 129 S. Front St.
Paxon Co., J. W., 1022 N. Delaware Ave.
Pecora Paint Co., 4th and Lawrence Sts.
Penn Chemical Works, 1322 Washington Ave.
*Pennsylvania Color & Chemical Mfg. Co., 248 Chestnut St.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Philadelphia Aniline & Extract Co., Bourse Bldg.

Pa., Philadelphia—cont.
Philadelphia Clay Co., 1201 Chestnut St.
Philadelphia Quartz Co., 121 S. 3d St.
Philadelphia Textile Chemical Works, Arnott and P. R. R.
Phillips & Jacobs, 622 Race St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pure Oil Co., Lafayette Bldg.
Reiner & Co., John W., American and York Sts.
Republic Mining & Mfg. Co., Harrison Bldg.
Rohmt & Haas Co., 40 N. Front St.
Royersford Foundry & Machine Co., 52 N. 5th St.
Shoemaker & Co., M. L., Ltd., E. Venango near Delaware Ave.
Shoemaker & Co., Robert, 201 N. 4th St.
Smith & Co., C. K., 123 Arch St.
Smith, Kline & French Co., 431 Arch St.
Taylor Co., N. & G., 300 Chestnut St.
*Thomas Co., Arthur H., W. Washington Sq.
Thomas & Son Co., I. P., Drexel Bldg.
Tomson & Co., P. C., 1124 Girard Ave.
Trotter & Co., Nathan, 36 N. Front St.
Tunnell & Co., F. W., 15 N. 5th St.
Twitchell Co., S., 225 Vine St.
Union Casein Co., 2314 Wood St.
Union Petroleum Co., 135 S. 2d St.
United Gas Improvement Co., Broad and Arch Sts.
Vila Color Co., H. S., 243 S. 2d St.
Wagner, Charles A., 222 N. Water St.
Wahl Mfg. Co., Emil, 3970 Pulaski Ave.
Walker, Stratman & Co., Herrs Island
Warner, Wm. R., 639 N. Broad St.
Watt's Sons, John M., 54 N. 2d St.
Westmoreland Chemical & Color Co., 925 Chestnut St.
Woodward & Dickerson, 14 S. Delaware Ave.
Wrigley Mfg. Co., Wayne above Roberts St.
Wyeth Bro., Inc., J., 11th and Washington Ave.

Pa., Philadelphia, Frankford
National Ammonia Co. of Pa., Delaware Ave. and Vankirk St.

Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
American Bauxite Co., Oliver Bldg.
American Reduction Co., Brushton Ave. and P. R. R.
American Vanadium Co., Vanadium Bldg.
American Zinc & Chemical Co.
Armstrong Cork & Insulation Co.
Beck Salt Co., John A., Western and Beaver Aves.
Carnegie Steel Co., Carnegie Bldg.
Columbia Chemical Co., Frick Bldg.
Diamond Alkali Co., First National Bank Bldg.
Falk Co. Park Bldg.
Fort Pitt Oil & Paint Co., 3209 Liberty Ave.
Gulf Refining Co., Frick Bldg.
Hamburger Distillery, Ltd., 706 Arrott Bldg.
Hussey & Co., Bessemer Bldg.
Keystone Bronze Co., 39th and Allegheny Valley Railroad
Lawrenceville Bronze Co., 3046 Pennsylvania Ave.
Macbeth-Evans Glass Co., Wabash Bldg.
*Mortland Chemical Co., 602 Fitzsimmons Bldg.
National Oil & Lead Co. of Pa., Commonwealth Bldg.
National Tube Co., Frick Bldg.
Nevin Co., T. H., Island and Preble Ave.
Northern Aluminum Co., Ltd., 2344 Oliver Bldg.
Pearsite Co., Oliver Bldg.
Pennsylvania Smelting Co., First National Bank Bldg.
Pittsburgh-Potosi Lead Co., 5527 Ellsworth Ave.
Pittsburgh Provision & Packing Co., Herrs Island
Pittsburgh White Sand Co., Farmers Bank Bldg.
Radium Chemical Co., Forbes and Meyram Aves.
Republic Chemical Co., Inc., P. O. Box 946
Scaife & Sons, Wm. H., 221 1st Ave.
*Scientific Materials Co., 711-719 Forbes St.
*Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.
Standard Alloys Co., Forbes and Meyran Ave.
Standard Chemical Co., Vanadium Bldg.
Vanadium Metals Co., Vanadium Bldg.
Vitro Mfg. Co., 720 Bessemer Bldg.
Waverly Oil Works Co.,
Wayne Brass Foundry, 4635 Butler St.

Pa., Pittston
Luzerne Chemical Co.
Wyoming Chemical Co.,

Pa., Primos
Primos Chemical Co.

Pa., Reading
Althouse Chemical Co., 500 Pear St.
Raser & Son, Wm. H.
Reading Chemical Mfg. Co.
Wilhelm Co., The A.
Pa., Scranton
American Color Co.
Ames Color Co.
International Salt Co. of N. Y.
Salt Mountain Co.
Pa., Sellersville
Radium Co of America
Pa., South Bethlehem
Bethlehem Steel Co.
Pa., Stockertown
Atlantic Potash Co.
Pa., Susquehanna
Pennsylvania Chemical Co.
Wayne Chemical Co.
Pa., Titusville
Pennsylvania Paraffine Works
Pa., Valley Forge
Ehret Magnesia Mfg. Co.
Pa., Warren
Pennsylvania Oil Products Refining Co.
Riverside Acid Works
Warren Chemical Products Co.
Pa., White Haven
Luzerne Ochre Mfg. Co.
Pa., Williamsport
Columbia Carbon Co.
National Paint Works
Pa., York
Hydrofluoric Mfg. Co.
York Chemical Works.
R. I., Phenix
Royal Chemical Co.
R. I., Providence
Agawam Chemical Works, 10 Waybosset St.
American Nitrogen Products Co., Securities Bldg.
Arnold, Hoffman & Co., Inc., 55 Canal St.
Bush Co., C. S.
Davol Rubber Co.
Everett & Barron Co., Inc., 217 Canal St.
Harris Oil Co., A. W., 326 S. Water St.
Industrial Chemical Co., Inc., P. O. Box 490.
*Lewis, John D., 1209 Turks Head Bldg.
Mathieson Alkali Co.
Nitrogen Products Co., 55 Canal St.
Providence Gas Co.
Rumford Chemical Works, 231 S. Main St.
U. S. Gutta Percha Paint Co.
R. I., Woonsocket
Standard Soap Mfg., Co.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.
Gemmill & Co., Wm. N., 142 Queen St.
S. C., Anderson
Anderson Phosphate & Oil Co.
S. C., Charleston
Combahee Fertilizer Co.
Etiwan Fertilizer Co.
Planters Fertilizer & Phosphate Co.
S. D., Hill City
Black Hills Tungsten Mining & Milling Co.
Spain, Barcelona
Sociedad Anonima Monegal; New York City: Bichels & Techow, 98 Maiden Lane
Switzerland, Basle
Sandoz Chemical Works
Tenn, Chattanooga
Chattanooga Chemical Co., Inc.
Chattanooga Gas & Coal Products Co., James Bldg.
Scholze & Bro., E. W.
Tenn, Columbia
International Phosphate Co.
Tenn., Del Rio
Adams, J. N.
Tenn., Ducktown
Ducktown Sulphur, Copper & Iron Co.
Tenn., Kingsport
Clinchfield Portland Cement Corporation
Union Dye & Chemical Corporation, 81 Fulton St.
Tenn., Knoxville
Southern Extract Co.
Tenn., Memphis
Forest Products Chemical Co.
Tenn., Nashville
Read Phosphate Co.
Tennessee Chemical Co.
Tennessee Fertilizer Co.
Tenn., Sweetwater
Doherty, J. F.
Durex Chemical Works
Moore, H. J.
Texas, Freeport
Freeport Sulphur Co.
Texas, Houston
Freeport & Mexican Fuel Co. Corporation
Hill Extract & Flavor Co.
Houston Packing Co.
Texas Co.
Texas, New Willard
New Willard Naval Stores Co.
Texas, Sugarland
Sugarland Mfg. Co.
Utah, Burmester
Salt Lake Chemical Co.

Utah, Marysville
Caraleigh Phosphate & Fertilizer Works
Utah, Ogden
Ogden Wholesale Drug Co.
Utah, Salt Lake City
Utah Chemical Co.
Utah Soap Co.
Utah, St. Marysville
Mineral Products Co.
Utah, Soldier Summit
Wasatoh Ozokerite Co.
Vt., Burlington
Wells & Richardson Co.
Va., Buena Vista
Buena Vista Extract Co.
Va., Charlottesville
Young & Co., H. E.
Va., Clifton Forge
Carolina Feldspar Mica Corporation
Va., Damascus
Smethpont Extract Co., Inc.
Va., Harrisonburg
Excelsior Oak Extract Co.
Va., Ivanhoe
National Carbide Co.
Va., Johnson
American Mineral Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Norfolk
American Fertilizer Co.
Atlantic Chemical Corporation
City Gas Co.
Farmers Guano Co.
Royster Chemical Works
Royster Guano Co., F. S.
Young Fertilizer Co., J. R.
Va., West Norfolk
Virginia Smelting Co.
Va., Petersburg
Southern Chemical Co.
Va., Richmond
Interstate Commerce Co., W. Broad and Meadow Sts.
Sauer Co., C. F.
Sulphur Mining & Railroad Co.
Virginia-Carolina Chemical Co.
Va., Roseland
American Rutile Co.
Va., Saltville
Mathieson Alkali Works, Inc., The
Va., St. Albans
Roessler & Hasslachen Chemical Co.
Wash., Anacortes
Robinson Fisheries Co.
Wash., Seattle
American Nitrogen Products Co., Securities Bldg.
Lilly Co., Chas. H.
Seattle Lighting Co., 360 Stuart Bldg.
Spokane Silica Co.
West Coast Chemical Co., 6919 Woodlawn Ave.
Wash., Spokane
Betts Co., C. G.
Fassett Co., C. M.
Spokane Falls Gas Light Co.
Wash., Tacoma
Carstens Packing Co.
Mashell Paint Co.
Pacific Coast Gypsum Co.
Standard Chemical Co.
Wash., Valley (Stevens Co.)
American Mineral Production Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
Tanners Extract Co.
W. Va., Hartford
American Calcium Chloride Works
Mason Coal & Chemical Co.
W. Va., Huntington
Lamie Chemical Co.
Standard Ultramarine Co.
W. Va., Malden
Dickinson Co., J. Q.
W. Va., Wheeling
Kalbitzer Packing Co., C.
Schenk & Sons Co., F.
Wis., Fond du Lac
Huber & Fuhrman Drug Mills
Wis., La Crosse
Langford-Boyd Packing Co.
Wis., Madison
Burgess Mineral Co.
Cleveland Mining Co.
General Laboratories
Wis., Marinette
Ansul Chemical Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Blatz Brewing Co., Val.
Corona Chemical Co.
Currie Bros. Co., 312 Broadway
Federal Rubber Co.
Fiebering Chemical Co.
Milwaukee Coke & Gas Co.
Milwaukee Gas Light Co.
National Distilling Co., 79 Buffalo St.
Newport Chemical Works, Inc., 1112 First National Bank Bldg.
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.
Northwestern Iron Co., First National Bank Bldg.
Patton Paint Co., 213 Lake Ave.
Wis., Racine
Horlick's Malted Milk Co.
Wis., Wauwatosa
Northwestern Chemical Co.

III. EQUIPMENT

Abrasives (*see Corundum, Emery*)

Ill., Chicago
Rhodes & Co., Jas. H., 157 W. Austin Ave.
Mass., Worcester
Norton Co.
Mich., Detroit
Star Corundum Wheel Co., 241 Cavalry Ave.
Mass., Cambridge
Exolon Co.
N. Y., New York City
*Schaaf-Regelman, E., 21 State St.
N. Y., Niagara Falls
Carborundum Co.
General Abrasive Co.
Pa., Pittsburgh
Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.
Wis., Wausau
Wausau Abrasives Co.

Absorption Apparatus

N. Y., Rochester
Will Corporation

Absorption Systems

Mass., Boston
Lummus Co., The Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Accumulators, Hydraulic

Ill., Chicago
Elmes Engineering Works, Charles F., 215 N. Morgan St.
Perrin & Co., William R., Old Colony Bldg.
N. J., Aldena
Watson-Stillman Co., The
N. J., Newark
Burroughs Co., Charles, 141-149 Commerce St.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Syracuse
Dunning & Boschert Co.
Ohio, Alliance
Alliance Machine Co.
Morgan Engineering Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Philadelphia
Southwark Foundry & Machine Co.
Pa., Pittsburgh
United Engineering & Foundry Co., Farmer's Bank Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Acetanilid Plants

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus, Walter E. Co., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acetate of Lime Plants (*see Calcium Acetate Plants*)

Acetic Anhydride Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest, Box 259
N. Y., Buffalo
Devine Co., J. P., Clinton St.
Pa., Philadelphia
Ott Co., George F., 209 Buttonwood St.

Acetometers

N. Y., Rochester
Will Corporation

Acetone Plants

N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Acetone Plants—*cont.*

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Acetphenetidine Plants

Mass., Fall River
Scott & Co., Ernest, Box 259
N. Y., Buffalo
Devine Co., J. P., Clinton St.

Acetylene Apparatus

Md., Baltimore
Milburn Co., Alexander, 1420-1428 W. Baltimore St.
Ind., Indianapolis
Presto-O-Lite Co., Inc.
N. J., Newark
*International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York
Acetylene Gas Illuminating Co., 405 Broome St.
Air Reduction Sales Co., 120 Broadway
Oxweld Acetylene Co., 30 E. 42d St.

Acetylene Burners (*see Burners, Gas*)

Acid Apparatus (*see specific headings*)

Acid, Apparatus, Carbolic (*see Phenol Apparatus and Plants*)

Acid Condensers (*see Condensers, Acid.*

Acid Distillation Plants (*see Distilling Apparatus*)

Acid Eggs

Ala., Birmingham
American Cast Iron Pipe Co.
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rennselaer St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Product Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid Masks (*see Masks, Acid or Fume Proof*)

Acid, Plants, Acetic

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Little Co., Inc., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
Kalbperry Corp., 31 Union Square, W.
Westinghouse, Church, Kerr & Co., 37 Wall St.
N. C., Charlotte
Chemical Construction Co.
Pa., Philadelphia
Blair, Campbell & McLean, Ltd.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Benzoic

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.

Acid, Planst, Citric

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Acid, Plants, Fatty

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Pa., Pittsburgh
Aluminum Co. of America
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Hydrochloric (*see Acid, Muriatic, Plants*)

Acid, Plants, Lactic

Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott, Ernest & Co.
N. Y., New York City
Kalbperry Corporation, 31 Union Square, West

Acid, Plants, Mono Sulphanic

N. Y., Buffalo
Devine Co., J. P.

Acid, Plants, Muriatic

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts Co.
N. C., Charlotte
Chemical Construction Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union Square, West
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Nitric

England, Widnes
Widnes Foundry Co., Ltd., The
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Little Co., Inc., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
N. C., Charlotte
Chemical Construction Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union Square, West
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Phosphoric

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
N. C., Charlotte
Chemical Construction Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid, Plants, Picric

England, Widnes
Widnes Foundry Co., Ltd., The
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Acid, Plants, Picric—*cont.*

N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.

Acid, Plants, Pyrogallic

N. Y., Buffalo
Devine Co., J. P.

Acid, Plants, Salicylic

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Foundation Co., The, Woolworth Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Sodium Sulphate

N. Y., Buffalo
Devine Co., J. P.

Acid, Plants, Stearic

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Sulphanilic

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Plants, Sulphuric

Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union Square, West
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid Proof Cement (*see Cement, Acid Proof*)

Acid Proof Stoneware Girders (*see Girders, Acid Proof Stoneware*)

Acid Recovery Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union Square, West
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid Wringers (*see Wringers, Acid*)

Acidometers

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Acidulators

Del., Wilmington
Walker & Elliott, Inc.
Ga., Atlanta
Pratt Engineering & Machine Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.

Adaptors, Retort

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-54 W. Kinzie St.
Mass., Boston
*International Equipment Co., 352 Western Ave.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Eimer & Amend, Third Ave., at 18th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 717 Forbes St.

Aerators

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
N. Y., Cortland
Champion Milk Cooler Co.
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Vt., Bellows Falls
Vermont Farm Mach. Co.

Agatex

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Agitating Systems, Air

Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Agitator Drives *(see Drives)*

Agitators *(see Specific Headings)*

Agitators, Benzol

Md., Baltimore
Bartlett, Hayward Co.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.

Agitators, Cement

N. Y., New York City
Dorr Co., 101 Park Ave.

Agitators, Chemical

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.
Dorr Company, Cooper Bldg.
Ill., Batavia
Sperry & Co., D. R.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Bartlett, Hayward Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Wickes Boiler Co.
N. J., Carteret
Wheeler Condenser & Evaporator Co.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Jersey City
Corcoran, Inc., A. J.
Kovent Bro., L. O.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
Burckhard, Thomas, Inc., 494 Flushing Ave.
Johnson Co., John, 37th and 2d Aves.
N. Y., Buffalo
Devine Co., J. P.
Farrar & Trefts, 47 Perry St.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Dorr Co., The, 101 Park Ave.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
International Process Co., 5 Beekman St.
Stevens Brothers, 149 Broadway
Van Emden Co., H., 145 W. 45th St.
Jacoby, Henry E., 95 Liberty St.
N. Y., Rochester
General Filtration Co., Inc.
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cleveland
Cleveland Brass Mfg. Co., The
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Leetonia
Leetonia Boiler Co.
Pa., Coatesville
Coatesville Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Agitators, Clay

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Trenton
Crossley Machine Co., Bell and Monmouth Sts.
Ohio, Alliance
Reeves Brothers Co., 338 Rush St.

Agitators, Drug

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Sowers Mfg. Co., 1299 Niagara St.

Agitators, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Agitators, Liquids (*see also Agitators, Chemical*)

Ind., Ft. Wayne
Bowser & Co., S. F.
Md., Baltimore
Bartlett, Hayward Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The

Agitators, Oil Refining

Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Warren
Warren City Tank & Boiler Works

Agitators, Paint

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cleveland
Fanner Mfg. Co., W. 25th, west of Brooklyn Bridge
Ohio, East Liverpool
Patterson Foundry & Machine Co.

Agitators, Paper Makers

Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Ohio, Akron
Biggs Boiler Works Co., Kent St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Agitators, Wooden Tank

N. J., Jersey City
Corcoran Inc., A. J., 763 Jersey Ave.

Air Compressors (*see Compressors, Air*)

Air Compressors, Pneumatic (*see Compressors, Air, Pneumatic*)

Air Conditioning Apparatus

Conn., Hartford
Connecticut Blower Co., Inc.
Ill., Chicago
Drying Systems, Inc., 320 N. Michigan Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Spray Engineering Co., 93 Federal St.
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clavage Fan Co
N. J., Camden
Webster & Co., Warren
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Corporation, 39 Cortland St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Pa., Philadelphia
Braemer Air Conditioning Co., Lafayette Bldg.

Air Devices, Automatic

Pa., Philadelphia
Monarch Mfg. Works, Inc., 3129 Emery St.

Air Filtering Apparatus (*see Filters, Air*)

Air Moistening Apparatus

Mass., Lowell
Turner Mfg. Co., J. S.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., New York City
Green Fuel Economizer Co., 90 West St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Air Purifying Apparatus (*see Purifiers, Air*)

Air-Separators, Vacuum

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.

Air Systems, for Transferring Acids and Corrosive Liquids

Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Air Washing Apparatus (*see Washers, Air*)

Albuminators, Esbach's

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Alcohol, Plants, Ethyl

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Roos, Son, August, 429 E. 91st St.
Ohio, Cincinnati
American Copper & Brass Works
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.
Ott Co., George F., 209 Buttonwood St.

Alcohol, Plants, Methyl

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Roos, Son, August, 429 E. 91st St.
Ohio, Cincinnati
American Copper & Brass Works
Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.
Ott Co., George F., 213 Buttonwood St.

Alcohol Recovery Plants

Md., Baltimore
Bartlett, Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J.

Alizarine Plants (*see Dyeing Machinery or Aniline Plants*)

Alkali Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mass., Springfield
Green Co., Samuel M.
Me., Portland
Electron Chemical Co., 534 Congress St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.

Alkalimeters

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Alkalimeters, Bunsen's

N. Y., Rochester
Will Corporation

Alternators, Turbo

N. J., Trenton
De Laval Steam Turbine Co.

Aluminum Mill Machinery

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., New York
Roos' Son, August, 429 E. 91st St.
Pa., Pittsburgh
Aluminum Co. of America
Garrison Foundry Co., 901 Bingham St.

Alundum

Mass., Worcester
Norton Co., New Bond St.

Amalgamating Plants

Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Allentown
Traylor Engineering & Mfg. Co.

Amalgamators

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Cal., San Francisco
Senn Concentrator Co., 607 First National Bank Bldg.
Col., Denver
Morse Bros. Machinery & Supply Co., 1732 Wazee St.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Houchin-Aiken Co., 113 53d St.
Pa., Philadelphia
Platinum Metals Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ammeters

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
Weston Electrical Instrument Co., Waverly Park
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Pignolet, Louis M., 78 Cortlandt St.
Roller-Smith Co., 233 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co., Wayne and Windrum Sts.
Queen-Gray Co., 616-620 Chestnut St.

Ammonia Condensers *(see Condensers, Ammonia)*

Ammonia Plants

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Unger, John S., 3344 Broadway
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett, Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Pittsburgh
Koppers Co., H., Union Ave.

Ammonia Recovery Plants *(see Recovery Plants)*

Ammonium Sulphate Plants

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Unger, John S., 3344 Broadway
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co., Scott and McHenry Sts.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Ohio, Cleveland
Gas Machinery Co.
Pa., Pittsburgh
Koppers Co., H., Union Ave.

Ampoules

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Mich., Detroit
Parke, Davis & Co.
Mich., Kalamazoo
Upjohn Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Amyl Acetate Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest

Anemometers

Cal., Los Angeles
Braun Corp., 363 New High St.

Anemometers—*cont.*

N. J., Hoboken
Keuffel & Esser Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Taylor Instrument Co
N. Y., Troy
Gurley, W. & L. E.
Pa., Philadelphia
Precision Thermometer & Instrument Co.

Aneroids

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
N. Y., Rochester
Taylor Instrument Co.

Aniline Plants

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Brooklyn
Johnson Co., John
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, Inc., 47 Perry St.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Hercules Engineering Corporation, 501 Fifth Ave.
Jacoby, Henry E., 95 Liberty St.
Stevens Brothers, 149 Broadway
Pa., Philadelphia
Ott Co., George F., 209 Buttonwood St.

Aniline Oil Plants

N. J., Elizabeth
Moore & Sons Corporation, Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Annealing Machines, Rotary, with Sealed Retort

N. Y., New York City
American Gas Furnace Co., 24 John St.

Anodes (*Classified lists follow*)

Anodes, All Metals

Conn., Seymour
Seymour Mfg. Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 50-56 W. Kinzie St.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
*Eimer & Amend, 205-211 3d Ave.
General Platers Supply Co., Inc.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Antimony

Ill., Chicago
Illinois Smelting & Refining Co., 410 N. Peoria St.

Anodes, Brass

Conn., Seymour
Seymour Mfg. Co.
Conn., Waterbury
American Bass Co.
Apothecaries Hall Co.
Scoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matewan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Anodes, Carbon

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Cleveland
National Carbon Co.

Anodes, Cobalt

N. Y. Brooklyn
Wiarda & Co., John C., 259 Greene St.

Anodes, Copper

Conn., Bridgeport
Bridgeport Brass Co.
Conn., Seymour
Seymour Mfg. Co.
New Haven Copper Co.
Conn., Waterbury
American Brass Co.
Apothecaries Hall Co.
Scoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Md., Baltimore
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
American Metal Co., 61 Broadway
American Smelting & Refining Co., 120 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Anodes, Gold

Conn., Hartford
Ney & Co., J. M.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Baker & Co., Inc.
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper Ave.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles S.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Iridium

N. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.

Anodes, Nickel

Conn., Seymour
Seymour Mfg. Co.
Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
*Imex Corp., 25 Beaver St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Anodes, Platinum

Conn., Hartford
Ney Co., J. N.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Buffalo
Hoover & Strong, 119 Tupper St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., Washington Square, W.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Anodes, Silver

Conn., Hartford
Ney & Co., J. N.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles C.

Anodes, Zinc

Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Great Western Smelting & Refining Co.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Ill., Peru
Illinois Zinc Co.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
American Metal Co., 61 Broadway
American Smelting & Refining Co., 120 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Nassau Smelting & Refining Works
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co., Electric Bldg.

Anvils

N. Y., Brooklyn
Eimer & Amend, 3d Ave., 38th to 39th Sts.
Hay-Budden Mfg. Co., 254 N. Henry St.

Apparatus (*Technical and Scientific*)

(*See also Specific Headings*)

Cal., Berkeley
*University Apparatus Co., 2229 McGee Ave.
Cal., Los Angeles
*Braun Corporation, The, 363 New High St.
Cal., San Francisco
*Claire, Justenian Co., 573 Market St.
*Smith, C. W., 16 Washington St.
Cal., San Francisco
Braun-Knecht-Heinmann Co., 576 Mission St.
Colo., Denver
Denver Fire Clay Co., 1742 Champa St.
Mine & Smelter Supply Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Schaar & Co., 1025 S. State St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
*Gaertner & Co., Wm., 5345 Lake Park Ave.
Humboldt Mfg. Co., 2014 Nebraska Ave.
Kimble-Durand Glass Co., 402 W. Randolph St.
*Laboratory Materials Co., 640 E. 71st St.
*Sargent & Co., E. H., 125 W. Lake St.
*Schaar & Co., 1025 S. State St.
Stoelting Co., C. H., 121 N. Green St.
Olmstead Scientific Co., W. A.
Ill., East Moline
Standard Calorimeter Co.
La., New Orleans
New Orleans Copper Works
Mass., Boston
Emerson Apparatus Co., 251-253 Causeway St.
*Gleeson, Thos. W., 106 Sudbury St.
International Equipment Co., 352 Western Ave.
*Knott Apparatus Co., L. E., 16 Harcourt St.
Mahady Co., E. F., 671 Boyleston St.
Mass., Cambridge
*International Instrument Co.
Mich., Ann Arbor
*Eberbach & Son Co.
Mich., Detroit
*Precision Instrument Co.
Mich., Lansing
*Apparatus & Specialty Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Hampton
Standard Water Systems Co.
N. J., Harrison
Driver Harris Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Millville
International Glass Co.
N. J., Newark
Baker & Co., Inc.
*Tobin & Co., James L., 279 Oraton St.

Apparatus—*cont.*

N. Y., Brooklyn
Arwe Mfg. Co., Carl H., 1348 De Kalb Ave.
Graham Chemical Pottery Co., 986 Metropolitan Ave.
Silver & Co., 304 Hewes St.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
Devine Co., J. P., 1366 Clinton St.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Angel & Co., H. Reeve, 120 Broadway
Berge, J. & H., 95 John St.
Bramhall-Deane Co., 261 W. 36th St.
Eimer & Amend, 205-211 3d Ave.
Empire Laboratory Supply Co., 411 Lexington Ave.
General Ceramics Co., 50 Church St.
Greiner Co., Emil, 55 Fulton St.
Kidder Mfg. Co., Jerome, 820 Broadway
Kny-Scheerer Co., 404 W. 27th St.
Kohlbusch, Herman, 170 Broadway
*Lenz Apparatus Co., 18 E. 16th St.
Louis Co., O. T., 70 5th Ave.
*Machlett & Son, E., 153 E. 84th St.
Mica Mfg. Co., 152 Chambers St.
Palo Co., 90-94 Maiden Lane
Stitzel & Buecher, 155 W. 29th St.
*Standard Scientific Co., 147 Waverly Pl.
Scientific Utilities Co., Inc., 84 E. 10th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
*Castle Co., Wilmot
Will Corporation
Ohio, Cleveland
Ohio Chemical & Mfg. Co., 1199 Marquette at L. S. and M. S. Railway
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Erie
American Sterilizer Co.
Erie City Mfg. Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Malvern
Bishop & Co. Platinum Works, J.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Bernstein Mfg. Co., 3d and Allegheny Ave.
Caloris Co., 2110 Allegheny Ave.
Feidt & Co., Geo. D., 230 S. 7th St.
*Thomas Co., Arthur H., W. Washington Square
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
MacBeth-Evans Glass Co.
Scientific Materials Co., 711-719 Forbes St.
Wash., Spokane
Fawcett & Co., C. M.

Applicators, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 Fifth Ave.

Aprons, Laboratory

Ill., Chicago
Chicago Belting Co.
Ill., Quincy
Cabinet Mfg. Co., 323-325 Main St.
Mass., Worcester
Grattont Knight Mfg. Co.
N. Y., New York City
*Eimer & Amend, 3d Ave., 38th to 39th Sts.
Ohio, Akron
Goodrich Co., B. F.

Aprons, Rubber

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 252 Western Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
U. S. Rubber Co.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Armlets, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Arsenic Plants

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Artificial Silk Machinery (*see Silk Machinery, Artificial*)

Asbestos Compounding Machines

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H.

Asbestos, Crude and Fibre

Md., Woodlawn
Powhatan Mining Co.

Asbestos Suits

N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Ash Handling Systems (*see also Conveyors*)

Ill., Chicago
Link-Belt Co.
Ind., East Chicago
Green Engineering Co.
Ind., Elkhart
Griffin Engineering & Construction Co.
Mo., St. Louis
Girtanner-Daviess Eng. & Contg. Co., 504 Chemical Bldg.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Ash Hoppers

N. Y., New York City
Dover Boiler Works, 50 Church St.

Asphalt Testing Apparatus

Ill., Chicago
Humboldt Mfg. Co., 2014 Nebraska Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Aspirators

N. Y., Rochester
Will Corporation

Assayers' Supplies

Cal., Los Angeles
Braun Corp., The
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
Wash., Spokane
Fassett Co., C. M.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90 Maiden Lane

Atmospheric Control Apparatus

N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.

Atomizers, Laboratory

N. Y., Buffalo
Buffalo Forge Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Industrial Filtration Corp., 115 Broadway
Pa., Philadelphia
Bokel & Co., Wm., 518 Vine St.
Whitall-Tatum Co., 410 Race St.

Atomizers, Steam

Mass., Boston
Codman & Shurtleff
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Kny, Scherer & Co., 404 W. 27th St.
N. Y., Rochester
Rochester Spray Pump Co., 179 Broadway
Ohio, Ashland
Myers & Brother, F. E., 900 Orange St.

Autoclaves

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
United Lined Tube & Valve Co.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.

Autoclaves—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Burkhard, Inc., Thomas
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Hercules Engineering Corporation, 501 Fifth Ave.
Jacoby, Henry E., 95 Liberty St.
Kellogg Co., The M. W., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, John L., 118 Fifth Ave.
Stevens Brothers, 149 Broadway
N. Y., Rochester
Pfaudler Co., The
Wilmot Castle Co., 800 St. Paul St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Ott Co., George F.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Autoclaves, Glass Enameled

N. Y., New York City
Mott Iron Works, John L., 118 Fifth Ave.
N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.

Autoclaves, High Pressure

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Bacteriological Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Sargent & Co., E. H., 125 W. Lake St.
Mass., Boston
International Equipment Co., 352 Western Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90 Maiden Lane
Scientific Utilities Co., Inc., 84 E. 10th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Will Corporation
Ohio, Columbus
*Laboratory Supply Co., 41 E. Chestnut St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Bag Filling Machines

Ill., Chicago
Link-Belt Co.
Mass., Fitchburg
Brown Bag Filling Machine Co.
N. J., Newark
Automatic Weighing Machine Co., 134 Commerce St.
Ohio, Columbus
Jeffrey Mfg. C., 904 N. 4th St.

Bags, Filter

Ga., Macon
Bibb Mfg. Co.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th St.
Chase Bag Co., 8 N. Main St.
N. Y., Brooklyn
National Filter Cloth & Weaving Co.
N. Y., New York City
Lane & Co., J. H., 334 4th Ave.
Turner, Halsey Co., 62 Leonard St.

Baking Machinery

Mich., Detroit
Detroit Heating & Lighting Co., 335 Wight St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester Ave.
Ohio, Cincinnati
Day Co., J. H.

Baking Ware

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
Pa., Rochester
Fry Glass Co., H. C.

Balance Rests

Ohio, Cambridge
Cambridge Glass Co.

Balances (*Classified lists follow*)

Balances

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Thompson Balance Co., 808 20th St.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
*Schaar & Co., 1025 S. State St.
Sargent & Co., E. H., 125 W. Lake St.
N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
*Scientific Utilities Co., Inc., 84 E. 10th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
Greiner Co., Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Scientific Equipment Co., 70 Fifth Ave.
*Standard Scientific Co., 147 Waverly Pl.
Torsion Balance Co., 92 Reade St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Carbondale
Griebel Instrument Co.

Balances, Analytical

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
*Sargent & Co., E. H., 125 W. Lake St.
Welch Mfg. Co., W. M., 1516 Orleans St.
Mich., Ann Arbor
*Eberbach & Son Co.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Square

Balances, Assay

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Thompson Balance Co., 808 20th St.
N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
Eimer & Amend, 205 3d Ave.
Fairbanks Co., 416 Broome St.
Pa., Philadelphia
Queen-Gray Co., 518 Chestnut St.
*Thomas Co., Arthur H., 238 W. Washington Square
Troemner, Henry, 911 Arch St.
Utah, Salt Lake City
Keller Mfg. Co., G. P., 1388 S. State St.

Balances, Centrifuge Tube

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Balances, Chainomatic

Ill., Chicago
Deegan Supply Co., 116-122 W. Illinois St.

Balances, Chemical (*see Balances, Analytical*)

Balances, Precision (*see Balances, Analytical*)

Balances, Westphal (*see Balances, Analytical*)

Ballastic Instruments

Pa., Philadelphia
Precision Thermometer & Instrument Co., 1434 Brandywine St.
Queen-Gray Co., 618–620 Chestnut St.

Ball Bearings

Conn., Bristol
New Departure Mfg. Co.
N. J., Harrison
Hyatt Roller Bearing Co.
Ohio, Canton
Timken Roller Bearing Co.
Pa., Philadelphia
Hess-Bright Mfg. Co., Front St.

Balls

Colo., Denver
Mine & Smelter Supply Co.
N. Y., New York City
Abbé, Paul O., New St. and Exchange Pl.
Abbe Engineering Co., 220 Broadway
Hardinge Conical Mill Co., 120 Broadway
Worthington Pump & Machinery Corp., 113 Broadway

Balls, Brass

N. Y., New York City
Boker & Co., H., Inc.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Powell Co., Wm., 2521 Spring Grove Ave.

Balls, Bronze

N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., New York City
Boker & Co., Wm., Inc., Broadway and Duane Sts.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.

Balls, Copper

Conn., Hartford
Abbott Ball Co.
N. Y., Brooklyn
Johnson Co., J. D., 51 Boerum Pl.
N. Y., New York City
Boker & Co., Inc., Wm., Broadway and Duane Sts.

Balls, Steel

Conn., Bristol
New Departure Mfg. Co.
Conn., Hartford
Abbott Ball Co., 1044 New Britain Ave.
N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Pa., Philadelphia
Standard Roller Bearing Co., 50th and Lancaster Ave.

Balls, Valve

N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Ohio, Akron
Goodrich Co., B. F.

Balls, Stoneware

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
N. Y., New York City
General Ceramics Co., 50 Church St.

Barium Salts Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Barometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mass., Boston
*Lloyd Co., A. J., 315 Washington St.
N. J., Hoboken
Keuffel & Esser Co.
N. J., Rutherford
Becton, Dickinson Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18–88 33d St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Taylor Instrument Cos.
N. Y., Watertown
Watertown Thermometer Co.
Pa., Philadelphia
*Hand & Sons Co., John E., 224 Walnut St.
Philadelphia Thermometer Co., 9th and Arch Sts.
Queen-Gray Co., 618 Chestnut St.
Williams-Brown & Earle, 918 Chestnut St.
Pa., Pittsburgh
*Elliott Co., B. K., 130 6th St.

Barometers, Mercurial

N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

Barrel Handling Machinery

Ill., Chicago
Brown Portable Conveying Machinery Co., 10 S. LaSalle St.
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co.
Ind., Indianapolis
Atkins & Co., E. C., 402 S. Illinois St.
Ohio, Columbus
Bartlett & Snow Co., C. O.
Jeffrey Mfg. Co., 904 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Co.

Barrels, Amalgamating

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.

Barrels, Bilge (*see Barrels, Steel*)

Barrels, Bilge, removable head

Mich., Detroit
Detroit Range Boiler Co.

Barrels, Bilge, galvanized and black

Mich., Detroit
Detroit Range Boiler Co.

Barrels, Chemical (*see Barrels, Steel; Barrels, Wood*)

Barrels, Chlorinating

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Cyanide

Mich., Bay City
MacKinnon Boiler & Machine Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 21 1st Ave.
Wis., Cudahy
Power & Mining Machinery Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Lead

N. Y., Brooklyn
Meurer Steel Barrel Co., 567 Flushing Ave.
Ohio, Cincinnati
Cincinnati Cooperage Co., W. 6th St.

Barrels, Steel

Cal., Torrance
Pacific Metal Products Co.
Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
National Enameling & Stamping Co.
Wilson & Bennett Mfg. Co., 65th Pl. and 58th Ave.
Ill., Galesburg
Metal Barrel Co.
Mich., Detroit
Detroit Range Boiler Co.
Detroit Steel Cooperage Co.
Mo., St. Louis
Brecht Co., 1252 Cass Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Meurer Steel Barrel Co.
N. Y., New York City
National Enameling & Stamping Co. 411 Fifth Ave.
*Standard Tank Co., 15 Park Row
Ohio, Cleveland
Cleveland Steel Barrel Co.
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ohio, Defiance
American Steel Package Co.
Ohio, Niles
Stevens Metal Products Co.
Ohio, Toledo
Toledo Steel Barrel Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Pa., Sharon
Petroleum Iron Works Co.

Barrels, Steel, Tin or Lead Lined

Mich., Detroit
Detroit Steel Barrel Co.
N. Y., New York City
National Enameling & Stamping Co., 411 Fifth Ave.
N. Y., Rochester
Pfaedler Co.
Pa., Sharon
Petroleum Iron Works Co.
Wis., Milwaukee
Pressed Steel Tank Co.

Barrels, Tongued and Grooved Staves

N. Y., Niagara Falls
International Cooperage Co., Inc., Erie Ave. and 9th St.

Barrels, Tumbling

Ill., Harvey
Whiting Foundry Equipment Co.
N. J., Jersey City
Corcoran, Inc., A. J., 760 Jersey Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Wood *(see also Tanks, Wood)*

Ill., Chicago
Pioneer Cooperage Co., 440-446 N. Hoyne Ave.
Ky., Louisville
Louisville Cooperage Co.
Md., Baltimore
Baltimore Cooperage Co., 1223 Leadenhall St.
Mo., St. Louis
St. Louis Cooperage Co.
N. Y., New York City
Colwell Cooperage Co., 412-414 Greenwich St.
Ohio, Cincinnati
Cincinnati Cooperage Co., W. 6th St.

Barrels, White Pine

N. H., Nashua
Procter Bros. & Co., Marshall St.

Bars, Aluminum

Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.

Bars, Brass

Conn., Waterbury
The American Brass Co.
Conn., Bridgeport
Bridgeport Brass Co.

Bars, Bronze

Conn., Waterbury
The American Brass Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Pa., Berwyn
American Bronze Co.

Bars, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Bars, Steel

Ill., Chicago
Illinois Steel Co.
Mo., St. Louis
Laclede Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Cambria Steel Co.
Pa., Pittsburgh
Carnegie Steel Co.
Jones & Laughlin Steel Co.
Pa., Bethlehem
Bethlehem Steel Co.

Basins

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Trenton
Maddock Sons Co., Thomas
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Troy
Troy Stamping Works

Baskets, Burnishing, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
Multi Metal Co., 257 W. 19th St.
Ohio, East Akron
Knight, Maurice E.

Baskets, Centrifugal

Mass., Boston
American Tool & Machine Co., 10 High St.
N. Y., New York City
Multi Metal Co., 257 W. 19th St.
Ohio, Hamilton
Hamilton Copper & Brass Works

Baskets, Dipping

Mass., Worcester
Wright Wire Co.
N. J., Harrison
Driver-Harris Wire Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York
General Ceramics Co., 50 Church St.
Multi Metal Co., Inc., 251 W. 19th St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Baskets, Pickling

N. Y., New York City
General Ceramics Co., 50 Church St.
Multi Metal Co., 257 W. 19th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Batch Handling Machinery

Ill., Aurora
Stephens Adamson Mfg. Co.

Baths, Air, Laboratory (*see Baths, Water*)

Baths, Drying (*see Baths, Water*)

Baths, Sand

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square

Baths, Serological

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Steam

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.

Baths, Wassermann

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Water

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mass., Boston
International Equipment Co., 352 Western Ave.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Scientific Utilities Co., Inc., 84 E. 10th St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Batteries, Diffusion

Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Zaremba Co., Niagara Life Ins. Bldg.

Batteries, Electric

Ill., Chicago
Fairbanks, Morse & Co., 902 S. Wabash Ave.
Federal Sign System, Lake and Desplaines Aves.
N. J., Orange
Edison, Inc., Thomas A.
N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Manhattan Electrical Supply Co., 17 Park Pl.
Western Electric Co., 195 Broadway
Ohio, Cleveland
National Carbon Co., Madison and Highland Aves.
Pa., Pittsburgh
Keystone Elec. Telephone Co., 614 Smithfield Ave.

Batteries, Extraction

Mass., Boston
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Winchester Ave.
Zaremba Co., Niagara Life Bldg.

Batteries, Leaching

Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Lummus Co., Walter E.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Equipment Co.
Zaremba Co., Niagara Life Bldg.
Pa., Philadelphia
Oat & Sons, Jos., 232 Quarry St.

Batteries, Storage

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Ind., Indianapolis
Presto-O-Lite Co., Inc.
N. J., Orange
Edison Storage Battery Co.
N. Y., Niagara Falls
U. S. Light & Heat Corp.
Pa., Philadelphia
Electric Storage Battery Co., Allegheny Ave. and 19th St.

Battery Charging Equipment

N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Cutler Hammer Mfg. Co.

Beakers, Glass

Ill., Chicago
Deegan Supply Co., 116-122 W. Illinois St.
N. J., Millville
International Glass Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
N. Y., New York
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth-Evans Glass Co.
Pa., Rochester
Fry Glass Co., H. C.

Beakers, Platinum

N. J., Newark
American Platinum Co.
Baker & Co., Inc.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Malvern
Bishop & Co., J., Platinum Works.

Beakers, Porcelain

Colo., Golden
Herold China & Pottery Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Beakers, Silica, Fused

N. Y., New York City
Sidio Co. of America, 37-39 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Beams, Steel

Ill., Chicago
Halsted Co., Jos., 1233 W. Randolph St.
Illinois Steel Co.
Inland Steel Co., 1st National Bank Bldg.
Scully Steel & Iron Co., 24th and Ashland Aves.
Ill., Chicago Heights
Calumet Steel Co.
N. Y., Buffalo
Lackawanna Steel Co.
Pa., Philadelphia
Cambria Steel Co.
Pennsylvania Steel Co.
Pa., Pittsburgh
Carnegie Steel Co.
Jones & Laughlin Steel Co.
United States Steel Corp.
Pa., Pottsville
Eastern Steel Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Bell Glasses

N. Y., Rochester
Will Corporation

Bellows, Hand

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Ohio, Cincinnati
Obermayer Co., S., 647 Evans St.
Ohio, Cleveland
Bullock Mfg. Co., T. H., 1577 Columbus Road
Osborn Mfg. Co., 5401 Hamilton Ave. N. E.
Wis., Two Rivers
Hamilton Mfg. Co.

Bells, Call

Conn., East Hampton
Hill Brass Co., N. N.
Conn., Meriden
Bradley & Hubbard Mfg. Co.
International Silver Co.
N. Y., New York City
Graham & Co., John H., 113 Chambers St.

Belt, Canvas, Special Stitched

N. J., Newark
Rossendale-Reddaway Belting & Hose Co., Euclid Ave.

Belt, Cotton, Solid Woven

N. J., Newark
Rossandale-Reddaway Belting & Hose Co., Euclid Ave.

Belt, Chain

Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link Belt Co. W. 39th and Stewart Ave.
N. Y., Ithaca
Morse Chain Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.

Belt, Link (*see Belt, Chain*)

Belting, Acid Resisting

Canada, Montreal
Canadian Consolidated Rubber Co. Ltd., 201 Inspector St.
Md., Baltimore
Chesapeake Belting Co.
Mass., Boston
Boston Belting Corporation, 110 Summer St.
N. J., Passaic
Dick, Ltd., R. & J.
N. J., Trenton
Home Rubber Co.
N. Y., New York City
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
International Leather & Belting Corporation, 511 Fifth Ave.
National Leather Belting Co., 342 E. 38th St.
Schieren & Co., Chas. A., Schieren Bldg.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Rhoads & Sons, J. E., 12 N. Third St.

Belting, Asbestos

N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Pa., Erie
Watson Co., H. F.

Belting, Canvas

Ga., La Grange
Unity Cotton Mills
Mass., Boston
International Cotton Mills Corporation
Mass., Cambridge
Boston Woven Hose & Rubber Co.

Belting, Canvas, Stitched

N. Y., New York City
National Leather Belting Co., Inc., 342 E. 38th St.

Belting, Conveyor

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Ave.
Link Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., Ithaca
Morse Chain Co.
N. Y., New York City
Schieren Co., Chas. A., Schieren Bldg.
U. S. Rubber Co., 1790 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Quaker City Rubber Co.
Rhoads & Sons, J. E.

Belting, Cotton (*see Belting, Canvas*)

Belting, Leather

Ill., Chicago
Chicago Belting Co., 113-125 Green St.
Link-Belt Co., W., 39th and Stewart Ave.
Ind., Columbus
Mooney & Sons, W. W.
Mass., Worcester
Graton & Knight Mfg. Co.
Mich., Detroit
Detroit Oak Belting Co., 266 Wight St.

Belting, Leather—*cont.*

N. Y., New York City
National Leather Belting Co., Inc., 342 E. 38th St.
Schieren & Co., Chas. A., Schieren Bldg.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.
Pa., Philadelphia
Rhods & Sons, J. E., 12 N. Third St.

Belting, Leather, Round

N. Y., New York City
National Leather Belting Co., Inc., 342 E. 38th St.

Belting, Leather, Steamproof

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren Bldg.

Belting, Leather, Waterproof

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren Bldg.

Belting, Link

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W., 39th St. and Stewart Ave.
N. Y., New York City
Schieren Co., Charles A., Schieren Bldg.

Belting, Rubber

Ill., Chicago
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Link-Belt Co., 329 W. 39th St.
Mass., Boston
Boston Belting Corporation, 110 Summer St.
B[illegible]kroniven Hose & Rubber Co., 170 [illegible]icler St.
Globe Rubber Works, 45 High St.
N. J., Trenton
Acme Rubber Mfg. Co.
Thermoid Rubber Co., P. O. Box 814
United & Globe Rubber Mfg. Co.
N. Y., Buffalo
Hewitt Rubber Co., 240 Kensington Ave.
N. Y., New York City
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Goodyear Rubber Co., 787 Broadway
Gutta Percha & Rubber Mfg. Co., 127 Duane Ave.
Peerless Rubber Mfg. Co., 31 Warren Ave.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Ohio, Youngstown
Republic Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
Rhoads & Sons, J. E., 12 N. 3d St.
R. I., Bristol
National India Rubber Co.

Belting, Waterproof

Ill., Chicago
Chicago Belting Co., 113-25 Green St.
Mass., Worcester
Graton & Knight Mfg. Co.
N. J., Bayonne
Duryea Mfg. Co.
N. Y., New York City
Schieren Co., Charles A., Schieren Bldg,
U. S. Rubber Co., 1790 Broadway
Pa., Philadelphia
Rhoads & Sons, J. E.

Belting, Wire

Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Mass., Worcester
Wright Wire Co., 69 Hammond St.

Bends, Acid Resistant

Conn., Branford
Malleable Iron Fittings Co.
Ill., Chicago
Crane Co., 800-838 S. Michigan Ave.
Eagle Picher Lead Co., 208 S. La Salle St.
Raymond Lead Co., S. Huron St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, Cincinnati
Lunkenheimer Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Pittsburgh
Pittsburgh Valve, Foundry & Construction Co.
R. I., Providence
General Fire Extinguisher Co.

Benzaldehyde Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Md., Baltimore
Bartlett, Hayward Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Bethlehem Foundry & Machine Co.

Benzine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Benzol Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Ill., Chicago
Unger, John S., 3344 Broadway
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Pa., Pittsburgh
Koppers Co., H.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Benzol Recovery Plants (*see Benzol Plants*)

Betanaphthol Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Bibbs (*see Cocks*)

Binders

Ill., Chicago
Standard Asphalt & Rubber Co., 137 La Salle Ave., S.
N. Y., New York City
Barrett Mfg. Co., 17 Battery Pl.
Indian Refining Co., 17 Battery Pl.
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Pl.
Ohio, Cleveland
National Refining Co., Rose Bldg.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.

Bins

Ill., Chicago
Chicago Bridge & Iron Works
Ind., Fort Wayne
Western Gas Construction Co.
Ind., East Chicago
Graver Tanks Works, William
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Kingston
Universal Road Machinery Co.
Ohio, Cleveland
Brown Hoisting Machinery Co.
Ott Co., George F., 207 Buttonwood St.
Steel Improvement & Forge Co., 5000 Winsor Ave.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Sharon
Petroleum Iron Works Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Biological Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 352 Western Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Blackboards, Adamant

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.

Blackboards, Slate

Pa., Bangor
Bangor Slate Mfg. & Supply Co.
Bangor National Slate Co.
Pa., East Bangor
East Bangor Consolidated Slate Co.
Pa., Easton
American Slate Co.
Pa., Slatington
Provident Slate Co.
Genuine Washington Slate Co.
Monarch Black Board & Structural Slate Co.

Blanc Fixe Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Blankets, Asbestos

N. J., Manville
Johns-Manville Co.
N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Ohio, Lockland
Carey Mfg. Co.

Blankets, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Youngstown
Republic Rubber Co.

Blasting Machinery (*see Drills*)

Bleaching Machinery

Ill., Chicago
Valhalla Co., Valhalla Bldg.
Mass., Holyoke
Holyoke Machine Co.
Mass., Orange
Hewt, Rodvey Machine Co.
N. Y., Amsterdam
Klauder-Weldon Dyeing Mach. Co.
Pa., Philadelphia
Butterworth & Sons Co., H. W., 2415 E. York St.
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Pa., Pittston
Delahunty Dyeing Machine Co.
R. I., Providence
Textile Finishing Machinery Co., 81 Exchange Pl.

Bleach Plants

Me., Portland
Electron Chemical Co.
Mass., Fall River
Scott & Co., Ernest, Box 269
Mass., Springfield
Green Co., Samuel M.
N. Y., New York City
Warner Chemical Co., 52 Vanderbilt Ave.

Blenders

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Ohio, Cincinnati
Day Co., J. H.

Blocks, Acid Proof

N. J., Manville
Johns-Manville Co.
N. Y., New York City
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Knight, Maurice A.

Blow Torches, Kerosene

N. J., Jersey City
Otto Metal Goods Corporation, William H., 401 St. Paul's Ave.

Blowcases

Ind., East Chicago
Graven Tank Works, Wm.
Mass., Fall River
Scott & Co., Ernest, Box 269
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Pa., Fullerton
Fuller Lehigh Co.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Blowers, Acid Fumes

Conn., Hartford
Connecticut Blower Co., Inc.
Terry Steam Turbine Co.
Ill., Chicago
Ilg. Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Barney Ventilating Fan Works, 62 High St.
Sturtevant Co., B. F., Hyde Park
N. J., Perth Amboy
Didier-March Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.
Pa., Titusville
Titusville Iron Co.

Blowers, Blast

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Blowers, Centrifugal

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co.
Improved Appliance Co., 413–415 Kent Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
N. Y., Schenectady
General Electric Co.

Blowers, Cyclodial

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Blowers, Electric

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. J., Elizabethport
Diehl Mfg. Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Pittsburgh
Westinghouse Electric & Mfg. Co.

Blowers, Exhaust

R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.
Ill., Chicago
Fairbanks-Morse & Co., Wabash Ave. and Eldredge Pl.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., Schenectady
General Electric Co.

Blowers, Fan

Conn., Hartford
Sterling Blower Co.
Ill., Chicago
Ilg Electric Ventilating Co., 154 Whiting St
Power Engineering Co., Railway Exchange
Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Blowers, Fan—*cont.*

Mass., Boston
Electric Blower Co., 352 Atlantic Ave.
Mass., Orange
Chase Turbine Mfg. Co.
Mich., Detroit
American Blower Co.
Mich., Saginaw
Allington & Curtis Mfg. Co., 402 Holden St.
N. J., East Orange
New York Blower Co.
N. J., Newark
Coe Co., C. T., 10-14 Johnson St.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
N. Y., Buffalo
Bicalky Fan Co., 866 Prospect Ave.
Buffalo Forge Co., 490 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Green Fuel Economizer Co., 90 West St.
R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.

Blowers, Flotation

Ind., Connersville
Connersville Blower Co.

Blowers, Foot

N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Blowers, Forge Power

Ind., Connersville
Connersville Blower Co.

Blowers, Hand

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave. and 18th St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square

Blowers, Laboratory (*see Laboratory Apparatus and Equipment*)

Blowers, Pressure

Conn., Hartford
Connecticut Blower Co., Inc.
Spencer Turbine Co.
Ill., Chicago
Ilg Electric Ventilating Co., 154 Whiting St.
Ill., Chicago Heights
Canedy-Otto Mfg. Co.
Ind., Connersville
Connersville Blower Works
Roots Co., P. H. & F. M.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
Mich., Niles
National Standard Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Brooklyn
Crowell Mfg. Co., 298 Taaffe Pl.
N. Y., Buffalo
Buffalo Forge Co
N. Y., New York City
Abbe Engineering Co., 220 Broadway
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Provost Engineering Corp., 220 Broadway
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.
Pa., Pottstown
Wilbraham-Green Blower Co.

Blowers, Pressure, Positive

N. Y., New York City
Wing Mfg. Co., L. J., 352 W. 13th St.

Blowers, Rotary

Ind., Connersville
Roots Co., P. H. & F. M.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.
Pa., York
York Electric & Machine Co., 30-34 N. Penn St.

Blowers, Rotary Positive

Ind., Connersville
Connersville Blower Co.

Blowers, Sand Blast

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.

Blowers, Smelter

Ind., Connersville
Connersville Blower Co.

Blowers, Soot

Ill., Chicago
Simonds & Co., G. L., 230 S. La Salle St.
Ill., Elgin
National Boiler Specialties Co.
Ind., Marion
Marion Machine Foundry & Supply Co.
Mass., Boston
Claflin Co., C. A., 161 High St.
Mich., Detroit
Diamond Power Specialty Co.
Mo., St. Louis
Bayer Steam Soot Blower Co., 2828-2840 La Salle St.
N. Y., Buffalo
Buffalo Forge Co.
General Specialty Co., 291-295 Michigan Ave.
N. Y., Troy
Monarch Steam Blower Co.
Pa., Du Bois
Vulcan Soot Cleaner Co.

Blowers, Ventilating (*see Blowers, Exhaust*)

Blowers, Volume

Mich., Kalamazoo
Clarage Fan Co.

Blowpipes, Industrial

Conn., Hartford
Sterling Blower Co.
Ill., Chicago
Garden City Fan Co., 332 S. Michigan Ave.
Metal Specialties Mfg. Co., 736 W. Monroe St.
Oxweld Acetylene Co., 36th and Jasper Pl.
U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.
La., New Orleans
American Blow Pipe & Ventilating Co., 438 Girod Ave.
National Blow Pipe & Mfg. Co., Ltd.
Mass., Boston
Allen Co., E. H., 41 Beverly St.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Detroit Heating & Lighting Co.
Detroit Blowpipe Co., 551 Grand River Ave.
Detroit Dental Mfg. Co., 22 Milwaukee Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.
N. Y., New York City
America Gas Furnace Co., 24 John St.
International Process Co., 5 Beekman St.
Selas Co., 521 W. 23d St.
Ohio, Cincinnati
Kiechler Mfg. Co., Wade and Denman Sts.
Kirk & Blum, York and Western Sts.
Ohio, Cleveland
Cleveland Blow Pipe & Mfg. Co.
R. I., Providence
New England Ventilating & Heating Co.

Blowpipes, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 50-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 352 Western Ave.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
*Eimer & Amend, 205 3rd Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Blowpipes, Oxyacetylene

Mo., St. Louis
Henderson-Willis Welding & Cutting Co., 2305-2309 N. 11th St.

Blowpipe Tips, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Blowpipes, Welding

Conn., Bridgeport
Delcampe Welding Co.
Conn., New Haven
Oxy-Carbi Co.
Mass., Boston
Waterhouse Welding Co.

Blue Plants, Milori

N. Y., Buffalo
Devine Co., J. P.

Blue Plants, Soluble

N. Y., Buffalo
Devine Co., J. P.

Blue Print Cloth

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Blue Printing Machines

Ill., Chicago
Dietzgen Co., Eugene, 166 W. Monroe St.
Pease Co., C. F., 219 W. Institute Pl.
N. Y., New York City
New York Blue Print Paper Co., 58 Reade St.
Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.
Pa., Scranton
Technical Supply Co.

Blue Print Room Supplies

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Blue Print Sensitizing Machines

Ill., Chicago
Pease Co., C. F., 166 W. Adams St.

Boards, Indicator Tank

Md., Baltimore
Baltimore Cooperage Co., The

Boats, Combustion (*see Combustion Boats*)

Boiler Feed Water Treatment (*see Water Softening Systems*)

Boiler Fronts (*see Fronts, Furnace*)

Boiler Settings

Ill., Chicago
Vulcan Fuel Economy Co., 230 S. La Salle St.
Ky., Louisville
Vogt Machine Co., Henry
Pa., Curwensville
Crescent Refectories Co.
Pa., Pittsburgh
Rust Engineering Co., Keenan Bldg.

Boilers

Cal., San Francisco
Union Iron Works Co., 260 California Ave.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Del., Wilmington
Harlan & Hollingsworth Corp.
Pusey & Jones Co.
Ill., Chicago
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Sullivan Machinery Co., 122 S. Michigan Ave.
Ill., Kewanee
Kewanee Boiler Co.
Ind., Fort Wayne
Brass Foundry & Machinery Co.
Iowa, Burlington
Murray Iron Works Co.
Maine, Bath
Bath Iron Workd, Ltd.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Atlantic Works, 70 Border St.
Mass., Framingham
International Engineering Works, Inc. Waverly St.
Mich., Detroit
Detroit Shipbuilding Co., Orleans St.
Great Lakes Engineering Works, Rivard and Detroit River
Detroit Range Boiler Co., 607-623 24th St.
Mich., Saginaw
Wickes Boiler Co.
N. J., Dover
Dover Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., Buffalo
Farrar & Trefts, Inc.
N. Y., New York City
Akerlund & Semmes, 17 Battery Pl.
Dover Boiler Works, 55 Church St.
MacGovern & Co., Inc., 114 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Cleveland
American Shipbuilding Co., Washington and Elm Aves.
Bartlett & Snow Co., C. O., 1040 French St.
Ohio, Warren
Warren City Tank & Boiler Works
Pa., Chester
Wetherill & Co., Robert
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Pa., Pittsburgh
Munroe & Sons Mfg. Corp., 23d and Smallman Sts.
Scaife & Sons Co., Wm. B., 221 1st Ave.

Boilers—*cont.*

Pa., Reading
Reading Iron Co.
Pa., Titusville
Titusville Iron Co.
Pa., West Chester
Sharples Separator Co.
Pa., Wilkes-Barre
Vulcan Iron Works

Boilers, Crane, Special

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Boilers, High Pressure Steam

Mass., Framingham
International Engineering Works, Inc., Waverly St.

Boilers, Return, Tubular

N. Y., New York City
Akerlun & Semmes, Inc., 17 Battery Pl.
Pa., Coatesville
Coatesville Boiler Works
Pa., Williamport
Keeler Co., E., 238 West St.

Boilers, Rotary, Bleaching

Ohio, Akron
Biggs Boiler Works Co., Bank & Williams Sts. and B. &. O. R. R.
Ohio, Alliance
Reeves Bros. Co.
Pa., Coatesville
Coatesville Boiler Works

Boilers, Still

Mich., Muskegon
Muskegon Boiler Works, Eighth St.

Boilers, Storage

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Boilers, Test Tube

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St

Boilers, Tubular, Horizontal, Return

Mich., Muskegon
Muskegon Boiler Works
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Boilers, Vertical

N. Y., New York City
Akerlun & Semmes, Inc., 17 Battery Pl.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Boilers, Water Tube

Cal., San Francisco
Bethlehem Shipbuilding Corporation
Ind., Fort Wayne
Bass Foundry & Machine Co.
Mass., Framingham
International Engineering Works, Inc.
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Beggs & Co., James, 32 Warren St.
Ohio, Warren
Warren Tank & Boiler Co.
Pa., Erie
Erie City Iron Works
Pa., Williamsport
Keeler Co., E., 238 West St.

Boosters, Gas (*see also Governors, Gas*)

Ill., Chicago
Sullivan Machinery Co.
Ill., Quincy
Gardiner Governor Co.
Ind., Connersville
Connersville Blower Co.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Booths, Steel

N. Y., Jamestown
Dahlstrom Metallic Door Co., 10 Blackstone Ave.
N. Y., New York City
American Steel Co., 45 W. 34th St.

Boring and Drilling Machines, Horizontal

Conn., Bridgeport
Bullard Machine Tool Co.
Ill., Chicago
Chicago Flexible Shaft Co., 56th Ave. and 12th St.
Mass., Worcester
Reed-Prentice Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Niles-Bement-Pond Co., 111 Broadway
N. Y., Rochester
American Woodworking Machine Co.
Ohio, Cincinnati
Fosdick Machine Tool Co., Blue Rock and Apple St.
Ohio, Cleveland
Cleveland Machine Tool Works, 3213-3225 Superior Ave.
Lucas Machine Tool Co., E. 99th St. and N. Y. C. R. R.

Boring and Drilling Machines, Horizontal—*cont.*

Ohio, Cincinnati
American Tool Works
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Pa., Waynesboro
Landis Tool Co.
Wis., Milwaukee
Pawling & Harnischfeger Co.

Boring and Turning Machines, Vertical

Del., Wilmington
Betts Machine Co.
Ohio, Cincinnati
American Tool Works
Cincinnati Planer Co., Oakley
King Machine Tool Co.
Pa., Franklin
Colburn Machine Tool Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Wis., Madison
Gisholt Machine Co.
Wis., Milwaukee
Pawling & Harnischfeger Co.

Boring, Drilling and Milling Machines

Md., Baltimore
Detrick & Harvey Machine Co.
Mass., Hudson
Universal Boring Machine Co., 30 Tower St.
Ohio, Cleveland
Cleveland Machine Tool Works, 3213-3225 Superior Ave.
Wis., Madison
Gisholt Machine Co.

Bottle-Blowing Machinery

Ind., Anderson
Dice Machine Co.
Ind., Terre Haute
O'Neill Bottle Machine Co.
N. Y., New York City
United Bottle Machinery Co., 90 W. Broadway
Ohio. Toledo
Kent-Owens Machine Co.
Owens Bottle Machine Co.

Bottle Caps

Ohio, Cambridge
Cambridge Glass Co.

Bottle Caps, Paper

N. J., Vineland
Sayford Paper Specialty Co.
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
Weiss Co., The M., 18 Warren Ave.

Bottle Cockers

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Bottle Filling Machinery

Ill., Chicago
Creamery Package Mfg. Co., 30 La Salle St.
Liquid Carbonic Co.
U. S. Bottlers' Machinery Co., 2511 Park Ave.
Md., Baltimore
Crown Cork & Seal Co.
Mass., Boston
American Soda Fountain Co., 282 Congress St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Wis., Milwaukee
Vilter Mfg. Co.

Bottle Rinsing Machinery

Ill. Chicago
Magnus Sons Co., A., 327 W. Randolph St.
U. S. Bottlers' Machinery Co., 1033 W. Lake St.
Ill., North Chicago
Davis Milk Machinery Co.
N. Y., Buffalo
Rice & Adams Corp.
Ohio, Cleveland
Loew Mfg. Co.

Bottle Sealing Machinery

Ill., Chicago
Creamery Package Mfg. Co., 30 La Salle St.
Liquid Carbonic Co.
U. S. Bottlers' Machinery Co., 2511 Park Ave.
Md., Baltimore
Crown Cork & Seal Co.
N. Y., Brooklyn
Phoenix-Hermetic Co., 38th and 14th Ave.

Bottles, Cork Stoppered

N. J., Millville
Wheaton Co., T. C.

Bottles, Dropping

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pa., Carbondale
Griebel Instrument Co.

Bottles, Gas

Pa., Carbondale
Griebel Instrument Co.

Bottles, Gas Washing

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Glass

Ill., Alton
Illinois Glass Co.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Ill., Danville
Headley Glass Works
Ind., Indianapolis
Fairmount Glass Works
N. J., Glassboro
Whitney Glass Works
N. J., Millville
International Glass Co.
Wheaton Co., T. C.
N. J., Williamstown
Williamstown Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Scientific Utilities Co., Inc., 84 E. 10th St.
Ohio, Newark
Heisey & Co., Inc., A. H.
Ohio, Toledo
Owens Bottle Machine Co.
Pa., Allentown
Allentown Flint Bottle Co.
Pa., Philadelphia
Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
Maris & Co., J. M.
Thomas Co., Arthur H., W. Washington Square.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
MacBeth-Evans Glass Co.
U. S. Glass Co., S., 9th and Bingham Aves.
Pa., Rochester
Fry Co., H. C.
W. Va., Wheeling
Central Glass Works

Bottles, Glass Stoppered

N. J., Millville
Wheaton Co., T. C.

Bottles, Gramercy, Reagent

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Bottles, Infusion

Ohio, Cambridge
Cambridge Glass Co.

Bottles, Mixing

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., Murray and Austin St.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Bottles, Prescription

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
Pa., Philadelphia
Whitall-Tatum & Co., 410 Race St.

Bottles, Reagent

N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Bottles, Specific Gravity

N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Bottles, Stoneware (*see Stoneware, Chemical*)

Bottles, Weighing

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Weighing Pipette

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Woulff

N. Y., New York City
Bernard & Co., F. J., 70 Murray St
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Bottle Stoppers, Patent

Pa., Philadelphia
Whitall-Tatum & Co., 410 Race St.

Bowls, Acid Proof

Colo., Denver
Colorado Iron Works Co.
N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Dayton
Duriron Castings Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Bowls, Evaporating

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Bowls, Graphite Spelter

N. J., Jersey City
Dixon Crucible Co., Joseph

Bowls, Solution

Ohio, Cambridge
*Cambridge Glass Co.

Boxes, Annealing and Carbonizing

N. J., Garwood
Garwood Bronze & Iron Works

Boxes, Carbonizing

Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Boxes, Catch

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Boxes, Fibre

Del., Wilmington
American Vulcanized Fibre Co.
Pa., Bridgeport
Diamond State Fibre Co.

Boxes, Fixing

Ohio,Cambridge
*Cambridge Glass Co.

Boxes, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Boxes, Heat Treating

Ohio, Cleveland
Cleveland Brass Mfg. Co., 3606-4700 Hamilton Ave.

Boxes, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Ohio, Cleveland
Cleveland Wire Spring Co.
Globe Machine & Stamping Co.

Boxes, Microscopic Slide

N. Y., New York City
*Estes & Sons, E. B., 362 5th Ave.

Boxes, Refinery

Pa., Oil City
Reid Gas Engine Co., Joseph

Boxes, Resistance

N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Boxes, Steel

Ill., Aurora
Allsteel Equipment Co.
Lyon Metallic Mfg. Co.
N. Y., New York City
Cave Welding & Mfg. Co., 32 Liberty St.

Boxes, Water

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Boxes, Zinc

Colo., Denver
Colorado Iron Works Co.

Brakes, Gravity Tramway

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.

Brakes, Magnetic

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Branding Machines

Ohio, Cleveland
Eureka Machine Co., 2610 Vega Ave.

Brass Work

Pa., Philadelphia
Ott, Geo., F., 209 Buttonwood St.
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Breakers (*see Crushers*)

Breakers, Electric Heat Control Circuit

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Breakers, Switchboard and Circuit

N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Breathing Devices

Ill., Chicago
Life Saving Devices Co., 564 W. Monroe St.
N. Y., New York City
Multi Metal Co., Inc., 257 W. 19th St.
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 First Ave.

Breechings, Smoke or Gas

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Breechings, Steel

Ind., East Chicago
Graver Tank Works, Wm.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
*Standard Tank Co., 15 Park Row
Ohio, Alliance
Reeves Bros. Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works
Pa., Erie
Erie City Iron Works
Pa., Sharon
Petroleum Iron Works Co.

Brick, Acid Proof

Ala., Birmingham
Graves Shale Paving Brick Co.
Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Chicago
Chicago Retort & Fire Brick Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
LaClede-Christy Co.
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Wash., Seattle
Denny-Renton Clay & Coal Co.

Brick, Blast Furnace

Ky., Ashland
Ashland Fire Brick Co.

Brick, Carborundum

N. J., Perth Amboy
Didier-March Co., P. O. Box 327

Brick, Chrome

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Brick, Cork

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Brick, Enameled

N. Y., New York City
American Enameled Brick & Tile Co., 52 Vanderbilt Ave.

Brick, Fire

Colo., Denver
Denver Fire Clay Co.
Ga., Atlanta
Hood Mifflin Brick Co., B.
Ill., Chicago
American Refractories Co., 206-210 S. La Salle St.
Chicago Fire Brick Co.
Chicago Retort & Fire Brick Co.
Ind., Evansville
Uhl Pottery Co.
Ky., Ashland
Ashland Fire Brick Co.
Mo., St. Louis
Evans & Howard Fire Brick Co., 920 Market St.
Hydraulic Press Brick Co.
Laclede-Christy Clay Products Co., Railway Exchange Bldg.
Walsh Fire Clay Products Co.
N. J., Perth Amboy
Didier-March Co.

Brick, Fire—*cont.*

N. Y., New York City
American Enameled Brick & Tile Co.
Celite Products Co., 11 Broadway
Federal Terra Cotta Co., 103 Park Ave.
Maurer & Son, Henry, 420 E. 23d St.
Ohio, Cincinnati
Taylor Sons Co., Chas.
Pa., Philadelphia
Foote Mineral Co.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Tenn., Jackson
Jackson Fire Brick Co.

Brick, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Brick, Insulating

N. Y., New York City
Celite Products Co., 11 Broadway
Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Brick Machinery

Mich., Lansing
Lansing Co.
N. J., Trenton
Crossley Machine Co.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Plymouth
Fate Co., J. D.

Brick, Magnesia

Ohio, Cleveland
Stowe Fuller Co.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Lavino & Co., E. J., Bullitt Bldg.

Brick, Rubbing

N. Y., Niagara Falls
Carborundum Co.

Brick, Silica

Ohio, Cleveland
Stowe Fuller Co.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Lavino & Co., E. J., Bullitt Bldg.

Brick, Vitrified

Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
Ill., Chicago
Chicago Retort & Fire Brick Co., 204 S. La Salle St.
Mo., St. Louis
Hydraulic Pressed Brick Co.
Ohio, Akron
American Sewer Pipe Co.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmer's Bank Bldg.

Bridges

Ill., Chicago
Chicago Bridge & Iron Works, 105th and Throop Sts.
Link Belt Co., W. 39th and Stewart Ave.
N. Y., New York City
American Bridge Co., 30 Church St.
Wis., Milwaukee
Wisconsin Bridge & Iron Co.

Briquettes, Aluminum (Light Scrap)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Anthracite

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Bituminous Coal

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Blast Furnace Flue Dust

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Brass Scrap

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Cast Iron (Borings)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Metal Dross

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Steel (Chips)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Zinc Dust

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquette Molds, for Asphalt and Cement

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Briquetting Machines

N. Y., New York City
General Briquetting Co., Inc., 41 Broadway
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Brown, Bismarck, Plants

N. Y., Buffalo
Devine Co., J. P.

Brown Print Cloth

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Brown Print Paper

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Brushes, Acid

Ohio, Cleveland
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.

Brushes, Beaker

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Bottle

N. Y., New York City
Hahn, A. W., 359 Greenwich St.
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Burette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Graduate

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Pipette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Test Tube

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 252 Western Ave.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Leiner & Co., George S., 1250 Brook Ave.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Buckets, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
U. S. Rubber Co., 1790 Broadway
Ohio, East Akron
Knight, Maurice A.
R. I., Bristol
National India Rubber Mfg. Co.

Buckets, Coal

Col., Denver
Mine & Smelter Supply Co.
Ill., Chicago
Link-Belt Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Minn., St. Paul
American Hoist & Derrick Co.
N. Y., New York City
Worthington Pump & Machinery Corporation
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Ohio, Columbus
Jeffrey Mfg. Co., 956 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Buckets, Conveying (*see Conveyors, Buckets*)

Buckets, Elevator

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Ill., East Aurora
Stephens-Adamson Mfg. Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
N. Y., New York City
Worthington Pump & Machinery Corporation
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Carbondale
Cross Engineering Co.
Wis., Milwaukee
Allis Chalmers Mfg. Co.
Chain Belt Co., 734 Park St.

Buckets, Excavating

Ill., Chicago
Andresen-Evans Co., 646 Railway Exchange Bldg.
N. Y., New York City
Hayward Co., 50 Church St.
Worthington Pump & Machinery Corporation
Ohio, Cleveland
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Pa., Erie
Williams Co., G. H.

Buckets, Grab

Ill., Chicago
Link-Belt Co.
Orton-Steinbrenner Co., 608 S. Dearborn Ave.
Mass., East Boston
Mead Morrison Mfg. Co.
Mich., Detroit
Northern Engineering Works
Minn., Duluth
Clyde Iron Works, 29th Ave., West and Michigan Ave.
Mo., St. Louis
Simmons Hardware Co.
N. Y., New York City
Hayward Co., 50 Church St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Brown Hoisting Machinery Co.
Wellman-Seaver-Morgan Co.
Pa., Erie
Williams Co., G. H.

Buckets, Grab, Single Line

Ill., Harvey
Whiting Foundry Equipment Co.

Buckets, Hard Rubber

N. J., Trenton
Luzerne Rubber Co., Muirheid Ave.

Buckets, Hoisting (*see Buckets, Coal and Ore*)

Buckets, Orange Peel

Ill., Chicago
Andresen-Evans Co., 646 Railway Exchange Bldg.
Link Belt Co.
N. Y., New York City
Hayward Co., 50 Church St.

Buckets, Ore (*see Buckets, Coal and Ore*)

Buckets, Self-Dumping

Ill., Chicago
Link-Belt Co., 329 W. 39th St.
Minn., Duluth
Clyde Iron Works, 29th Ave., West and Michigan St.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., Long Island City
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Brown Hoisting Machinery Co., 4403 St. Clair St.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Buckets, Tilting

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Buddles

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.

Bulbs, Connecting, Kjeldahl

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Bulbs, Incandescent

N. Y., Corning
Corning Glass Works
Ohio, Toledo
Libby Glass Co.
Pa., Pittsburgh
MacBeth Evans Glass Co.

Bulbs, Kjeldahl (*see Laboratory Apparatus and Equipment*)

Bulbs, Nitrogen (*see Laboratory Apparatus and Equipment*)

Bulbs, Potash (*see Laboratory Apparatus and Equipment*)

Bumpers, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.

Bungs, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Bunkers, Coal

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Ind., East Chicago
Graver Tank Works, Wm.
Mass., Fall River
Scott & Co., Ernest
N. J., East Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Farrar & Trefts
N. Y., New York City
American Bridge Co., 30 Church St.
Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Sharon
Petroleum Iron Works Co.

Burettes (*see Glass, Chemists; see Glass, Chemical*)

Burette Clamps

Ill., Chicago
*Stoelting Co., C. H., 3037 Carroll Ave.

Burette Stands

Pa., Carbondale
Griebel Instrument Co.

Burners

N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.

Burners, Argand

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.

Burners, Assay

Cal., Los Angeles
Calkins Co., 348 N. Main St.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.

Burners, Atmospheric

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Burners, Blast

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Burners, Brazing

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
N. Y., New York City
Quigley Furnace Specialties Co., Church St.
Ohio, Cincinnati
Macleod Co., 2225 Bogen St.

Burners, Bunsen

Conn., Stamford
Stamford Gas Stove Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52–56 W. Kinzie St.
Deegan Supply Co., 116–122 W. Illinois St.
*Stoelting Co., C. H., 3037 Carroll Ave.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E. Ave. W.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Newark
Newark Brass Works, 20 Lawrence Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.

Burners, Bunsen—*cont.*

N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Erie
Advance Mfg. Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Burners, Efficiency Gas Pipe

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Felt Singing

N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.

Burners, Gas

Cal., San Francisco
Johnson Co., S. T., 1337 Mission St.
Conn., New Haven
Oven Equipment & Mfg. Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Deegan Supply Co., 116–122 W. Illinois St.
*Schaar & Co., 1025 S. State St.
Ill., Rockford
Eclipse Fuel Engineering Co.
Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E. Ave. W.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
American Gas Furnace Co., 24–26 John St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Quigley Furnace Co., 25 Church St.
Selas Co., 521 W. 23d St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. Y., Syracuse
Syracuse Industrial Gas Co., 483 S. Salina St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.
*Scientific Materials Co., 711-719 Forbes St.

Burners, Gasoline

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Mich., Detroit
Detroit Heating & Lighting Co.
Ohio, Canton
Sun Vapor & Street Light Co.

Burners, Incandescent, Gasoline

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Incinerating

N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.

Burners, Laboratory (*see Burners, Bunsen*)

Burners, Oil

Cal., Fresno
Gearhart Oil Burner Co., 1314 Eye St.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Johnson Co., S. T., 1337 Mission St.
Ill., Chicago
National Supply Co., 416 W. Grand Ave.
Schaar & Co., 1025 S. State St.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.
Improved Appliance Co., 413–415 Kent Ave.
N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway
Babcock & Wilcox Co., 85 Liberty St.
Metals Production Equipment Co., 105 W. 40th St.
Mine & Smelter Supply Co., 42 Broadway
*Palo Co., 90 Maiden Lane

Burners, Oil—*cont.*

Ohio, Cincinnati
Macleod Co., Bogen St.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.
Monarch Mfg. Works, 3129 Emery St.
Pa., Pittsburgh
Tate, Jones & Co., Inc.

Burners, Powdered Coal

Ill., Chicago
Stroud & Co., E. H., 928-934 Fullerton Ave.
N. Y., New York City
Quigley Furnace Specialities Co., 25 Church St.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Burners, Sulphur

Ga., Atlanta
Mutual Foundry & Machine Co.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., Glen Falls
Glen Falls Machine Works
N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.
Pratt Engineering & Machine Co.
Ohio, Cincinnati
MacLeod Co., 2223 Bogen St.
Pa., Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Appleton
Valley Iron Works Co.

Burettes, Displacement

N. Y., Rochester
Will Corporation

Burettes, Gay Lussac

N. Y., Rochester
Will Corporation

Bushings, Brass

Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link Belt Co., W. 39th and Stewart Ave.
Ohio, Cincinnati
Lunkenheimer Co.

Bushings, Bronze (*see Bushings, Brass*)

Bushings, Cast Iron

N. J., Newark
U. S. Cast Iron Pipe & Foundry Co.

By-Product Machinery

Md., Baltimore
Bartlett, Hayward Co.
N. Y., Buffalo
Devine Co., J. P.

By-Product Recovery Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett Hayward Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
N. Y., New York City
Hercules Engineering Corporation, 501 Fifth Ave.
Kalbperry Corporation, 31 Union Square, W.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.

Cabinets, Blue Print

Ill., Aurora
Lyon Metallic Mfg. Co.
N. Y., Rochester
Yawman & Erbe Mfg. Co.
Wis., Two Rivers
Hamilton Mfg. Co.

Cabinets, Chemical

Ind., Indianapolis
Schwartz Sectional System
Mich., Allegan
Oliver & Co.
N. Y., Brooklyn
Lutz Mfg. Co., 162 Albany Ave.
N. Y., New York City
Bogert & Hopper, 162 William St.
Ohio, Dayton
Reynolds & Reynolds Co., The

Cabinets, Laboratory

Ind., Indianapolis
Schwartz Sectional System

Cabinets, Metal

Mass., Framingham
Manufacturing Equipment & Engraving Co.
Mich., Grand Rapids
Terrell's Equipment Co.

Cabinets, Reagents

Ind., Indianapolis
Schwartz Sectional System

Cabinets, Steel (*see also Cabinets, Filing*)

Ill., Aurora
Lyon Metallic Mfg. Co.
N. Y., New York City
Hospital Supply Co., 53 5th Ave.
Pa., Philadelphia
Large-Dail Mfg. Co., 114 N. 13th St.

Cabinets, Steel Storage

Ill., Aurora
Allsteel Equipment Co.

Caissons, Steel

N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Dover Boiler Works, 30 Church St.
Stevens Bros., Singer Bldg.
Pa., Coatesville
Coatesvile Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Calciners, Rotary

Ohio, Cleveland
Cummer & Son Co., F. D., 413 The Arcade

Calcium Acetate Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., New York City
Hercules Engineering Corporation, 501 Fifth Ave.
N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Calibrating Apparatus

N. Y., Rochester
Will Corporation

Calorgraphs

Mich., Detroit
Precision Instrument Co.

Calorimeters

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Ellison, Lewis M., 214 W. Kinzie St.
Sargeant Steam Meter Co., 1902 N. California Ave.
Ill., East Moline
Standard Calorimeter Co.
Mass., Boston
Crosby Steam Gauge & Valve Mfg. Co., 38 Central Ave.
American Steam Gauge & Valve Mfg. Co.
*Emerson Apparatus Co., 251 Causeway St.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th Ave.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
N. Y., New York City
American Meter Co., 561 W. 47th St.
*Eimer & Amend, 3d Ave., 18th to 19th St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Sarco Co., Inc., 237 Broadway
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Dayton
Smith Gas Engineering Co.
Ohio, Lexington
*Smith Gas Engineering Co.
Pa., Philadelphia
Queen-Gray Co., 616-620 Chestnut St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 717 Forbes Ave.

Calorimeters, Gas, Recording

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
Ohio, Dayton
Smith Gas Engineering Co.

Cameras, Photomicrographic

N. Y., Binghamton
Ansco Co.
N. Y., Rochester
Bausch & Lomb Optical Co.
Eastman Kodak Co.

Can Filling Machinery

Ill., Chicago
Sprague Canning Machinery Co., 220-224 N. Wabash Ave.
Mich., Saginaw
Nickle, Frank H., 1321 N. Bond St.
N. J., Newark
Automatic Weighing Machine Co., 134 Commerce St.
N. Y., Buffalo
Crandall Can Filler Machine Co., 1394 Niagara St.

Can Machinery

Ill., Chicago
American Can Co., 104 S. Michigan Ave.
Sprague Canning Machine Co., 220 N. Watson St.
Mo., St. Louis
Brecht Co., 1250–1256 Cass Ave.
N. Y., Brooklyn
Bliss Co., E. W., 17 John St.
Ohio, Elyria
Elyria Enameled Products Co.

Can Making Machinery

Md., Baltimore
American Compressor & Pump Co., 801-805 E. Pratt St.
N. Y., Brooklyn
Leffler & Co., Chas., 49-73 Clymer St.

Cans, Oil, Safety, Non Explosive

Ill., Chicago
Justrite Mfg. Co., 2061–2081 Arithport Ave.

Cans, Oily Waste, Automatic

Ill., Chicago
Justrite Mfg. Co., 2061–2081 Arithport Ave.

Capsules

Col., Golden
Herold China & Pottery Co.
Mich., Detroit
Parke, Davis & Co.
N. Y., New York City
Behrend, F., 54 Front St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Capsules, Alundum

Mass., Worcester
Norton Co., New Bond St.

Capsule Filling Machinery

Mich., Detroit
Colton Co., Arthur, 782 E. Jefferson Ave.
Pa., North Philadelphia
Stokes Machine Co., F. J.

Carbide Lights

Md., Baltimore
Milburn Co., Alexander, 1420–28 W. Baltimore St.

Carbonators

Ill., Chicago
Liquid Carbonic Co.
Magnus Sons Co., 327 W. Randolph St.
N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.
Wis., Grand Rapids
American Carbonic Machinery Co.

Carbon Burning Outfits

Mass., Boston
Waterhouse Welding Co.

Carbonic Acid Determination Apparatus

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Carbonic Acid Gas Machinery

Ill., Chicago
Liquid Carbonic Co.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Pa., Carbondale
Carbondale Machine Co.
Wis., Grand Rapids
American Carbonic Machinery Co.

Carbonizing Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Philadelphia Drying Machinery Co.
Philadelphia Textile Machinery Co. 6th St. and Tabor Road

Carborundum Brick, "Silcar Brand"

N. J., Perth Amboy
Didier-March Co.

Carboy Inclinators

Minn., Minneapolis
McCord & Co., Horace M., Exchange Bldg.
N. Y., New York
*Eimer & Amend, 3d Ave., 18th to 19th St.

Carboys

Ill., Alton
Illinois Glass Co.
N. J., Bridgeton
Cumberland Glass Mfg. Co.
N. Y., Corning
Corning Glass Works.
Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
MacBeth-Evans Glass Co.

Carlsruhe

N. Y., New York City
Rhodes & Co., James H., 162 William St.

Car Pullers

Ill., Aurora
Stephens Adamson Mfg. Co.

Carriers (*see Belts, Buckets, Cars, Conveying, Machinery, Conveyors*)

Cars, Annealing Furnace

Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.

Cars, Charging

Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.

Cars, Core Oven

Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Ohio, Cleveland
Lakewood Engineering Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Cars, Drying

N. Y., New York City
Turl Iron & Car Co., Inc., 50 Broad St.

Cars, Dump

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Western Wheeler Scraper Co.
Ill., Chicago
Austin Mfg. Co., Manhattan Bldg.
Central Locomotive & Car Works, 345 S. Dearborn St.
National Dump Cart Co., 80 E. Jackson Blvd.
Sackett Screen & Chute Co., H. B. 1681 Elston Ave.
Ill., Harvey
Whiting Foundry Equipment Co.
Ind., Michigan City
Haskell & Barker Car Co.
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Mich., Detroit
Russell Wheel & Foundry Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St.
St. Louis Car Co., 8000 N. Broadway
Mo., Springfield
United Iron Works
N. Y., Livingston, S. I.
Hunt Co., C. W.
N. Y., Long Island City
Stuebner Iron Works, G. L., 13th and Vernon Ave.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Bucyrus
American Clay Machinery Co., 201 E. Warren St.
Ohio, Cleveland
Atlas Car & Mfg. Co., Ivanhoe Road
Lakewood Engineering Co., Station "G"
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ralston Steel Car Co.
Ohio, Youngstown
Youngstown Car & Mfg. Co.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Easton
Easton Car & Construction Co., 200 4th St.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Pittsburgh
Clark Car Co., Oliver Bldg.
Pressed Steel Car Co., Farmer's Bank Bldg.
Summers Steel Car Co., Oliver Bldg.
Wash., Seattle
Seattle Car & Foundry Co., Alaska Bldg.

Cars, Industrial

Ill., Harvey
Whiting Foundry Equipment Co.
Mich., Detroit
Northern Engineering Works, 14 Chene St.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St
N. J., Hoboken
Tidewater Iron Works, 725 Jefferson St.
N. Y., Livingston, S.I.
Hunt Co., C. W.
N. Y., Long Island City
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.

Cars, Industrial—*cont.*

N. Y., New York City
American Car & Foundry Co., 165 Broadway
Guarantee Construction Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Lakewood Engineering Co., Station "G"
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Pa., Easton
Easton Car & Construction Co., 200 4th St.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Pittsburgh
Pressed Steel Car Co., Farmer's Bank Bldg.
Tenn., Knoxville
Oliver Mfg. Co., Wm. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cars, Open Hearth Charging

N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Ohio, Cleveland
Lakewood Engineering Co.

Cars, Ore

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Ill., Chicago
Austin Mfg. Co., 910 S. Michigan Ave.
Ind., Michigan City
Haskell & Barker Co.
Mich., Lansing
Lansing Co.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Ohio, Cleveland
Lakewood Engineering Co.
Pa., Easton
Easton Car & Construction Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cars, Platform (*see Cars, Industrial*)

Cars, Railway

Ala., Anniston
Kilby Car & Foundry Co.
Del., Wilmington
Harlan & Hollingsworth Corp.
Ill., Chicago
Central Locomotive & Car Works, 345 S. Dearborn St.
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Chicago Steel Car Co., 156th and Halstead Aves.
Pullman Company, Pullman Bldg.
Western Steel Car & Foundry Co., 37 W. Van Buren St.
Ind., Michigan City
Haskell & Barker Car Co.
Iowa, Bettendorf
Bettendorf Co.
Mich., Three Rivers
Sheffield Car Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive Bldg.
Ohio, Cleveland
Atlas Car & Mfg. Co., Ivanhoe Road
Ohio, Columbus
Ralston Steel Car Co.
Ohio, Dayton
Barney & Smith Car Co.
Pa., Erie
Erie Car Works, 17th and Raspberry Sts.
Pa., Philadelphia
Brill Co., J. G., 62d and Woodland Ave.
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Pressed Steel Car Co., Farmer's Bank Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Va., Richmond
Tredegar Co.

Cars, Skip

N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Ohio, Cleveland
Lakewood Engineering Co.

Cars, Slag

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Ill., Harvey
Whiting Foundry Equipment Co.
Pa., Easton
Easton Car & Construction Co.

Cars, Sterilizing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Cars, Tank

Ill., Chicago
Chicago Bridge & Iron Works
Ind., Michigan City
Haskell & Barker Car Co.
Iowa, Davenport
Bettendorf Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive Bldg.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., New York City
Aetna Steel Products Co., Inc., 40 Church St.
American Car & Foundry Co., 165 Broadway
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Columbus
Ralston Steel Car Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Pressed Steel Car Co., Farmer's Bank Bldg.
Pa., Sharon
Pennsylvania Tank Car Co.

Carts, Benzine

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Carts, Fertilizer

Mich., Lansing
Lansing Co.
Pa., Harrisburg
Jackson Mfg. Co.
Tenn., Chattanooga
Chattanooga Wheelbarrow Co.

Carts, Industrial

Ill., Bradley
Bradley Machine Works
Ind., South Bend
South Bend Chilled Plow Works
Studebaker Corp.
Mass., Boston
Ames Plow Co., Quincy Hall
Mich., Lansing
Lansing Co.
Ohio, Ashland
Myers & Bro., F. E., 900 Orange St.
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ohio, Toledo
Gendron Wheel Co.
Tenn., Chattanooga
Chattanooga Wheelbarrow Co.

Carts, Matte

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.

Carts, Slag (*see Cars, Slag*)

Case Hardening

Conn., Bridgeport
Bridgeport Steel Treating Co.
Conn., Bristol
Barnes, Wallace Co., 118 Wallace Ave.
Dunbar Bros. Co., 76 South St.
Ill., Chicago
Cassady-Fairbank Mfg. Co., 6126 S. La Salle Ave.
Mich., Detroit
Briscoe Mfg. Co., 1443 Woodward Ave.
N. J., Jersey City
Drop Forging Co., 299 West Side Ave.
N. Y., Brooklyn
Williams & Co., J. H., 73 Richards St.
N. Y., Buffalo
Crosby Co., 137 Pratt St.
N. Y., New York City
Frasse & Co., Inc., Peter A., 417 Canal St.
N. Y., Utica
Bossert Corp., The

Case Hardening Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Cases, Bottle

Mass., Gloucester
Perkins Box Co.
Ohio, Defiance
Defiance Box & Coop Co.
Wis., Marinette
Marinette & Menominee Box Co.

Casing, Steam Pipe, Wooden

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.

Casks (*see also Barrels, Tanks*)

Md., Baltimore
Baltimore Cooperage Co.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Casseroles

Col., Golden
Herold China & Pottery Co.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Haddonfield
Wingender & Bro., Chas.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Duriron Castings Co., 90 West St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Casseroles—*cont.*

N. Y., Rochester
Will Corporation
Ohio, Cambridge
Guernesey Earthenware Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Ohio, Sebring
Limoges China Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Casseroles, Pyrex Glass

N. Y., Corning
Corning Glass Works

Castings, Acid Proof

N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Ave.

Castings, Acid Resistant

Ga., Atlanta
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
Ill., Chicago
Crane Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. J., Harrison
Driver Harris Co., Railroad Ave.
N. J., Newark
Acid Proof Iron Products Co., 47 Hermon St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Green Fuel Economizer Co., 90 West St.
Jacoby, Henry E.
Pratt Engineering & Machinery Co.
Stevens Bros., 928 Singer Bldg.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller Lehigh Foundry Co.
Pa., Philadelphia
Cramp & Sons Ship & Engine Building Co., Wm.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Castings, Air Furnace

Conn., Branford
Malleable Iron Fittings Co.
Conn., Naugatuck
Eastern Malleable Iron Co.
Mass., Springfield
Quigley Furnace & Foundry Co.
N. J., Paterson
Watson Machine Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., Syracuse
Syracuse Malleable Iron Works
Ohio, Youngstown
Todd Co., The Wm.
Youngstown Foundry & Machine Co.
Pa., Chambersburg
Chambersburg Engineering Co.
Pa., Fullerton
Fuller Lehigh Foundry Co.
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Pa., Pittsburgh
Garrison Foundry Co., 901 Bingham St.
Mesta Machine Co., Oliver Bldg.
Pa., Reading
Reading Iron Co.
Wis., Milwaukee
Wisconsin Malleable Iron Co., 90 S. Bay St.

Castings, Aluminum

Conn., New Britain
North & Judd Mfg. Co.
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Waterbury
Waterbury Brass Goods Corp.
Ill., Chicago
Adams & Wesley Co., Ontario and Franklin Sts.
Chicago Aluminum Castings Co., 2647 Ogden Ave.
Chicago Malleable Castings Co., W. 120th and Center Ave.

Castings, Aluminum—*cont.*

Md., Baltimore
Maryland Brass & Metal Works, Guilford and Girard Aves.
Mass., Worcester
Reed Prentice Co.
Mich., Detroit
General Aluminum & Brass Mfg. Co., East Grand Blvd. and St. Aubin St.
N. J., Arlington
Lovell Co., F. H.
N. J., Newark
Aluminum Goods Mfg. Co.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Cleveland
Aluminum Castings Co., 6205 Carnegie Ave.
Ohio, Dayton
Buckeye Iron & Brass Works
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Aluminum Co. of America
Pittsburgh Brass Mfg. Co., 3155 Pennsylvania Ave.
Pa., South Bethlehem
Bethlehem Steel Co.

Castings, Aluminum Bronze Die

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Castings, Brass

Cal., Los Angeles
Acme Brass Foundry Co., 860 N. Main St.
Lelwellyn Iron Works, N. Main and Redondo Sts.
Conn., Ansonia
Ansonia Mfg. Co., River Road
Conn., Bristol
Bristol Brass Co.
Conn., Meriden
Miller & Co., Edw.
Conn., Middletown
Wilcox, Crittenden & Co., Inc.
Conn., New Britain
North & Judd Mfg. Co.
Conn., New Haven
Peck Bros. & Co., The
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Waterbury
American Brass Co.
Scovill Mfg. Co.
Waterbury Brass Goods Corp.
Del., South Wilmington
Hilles & Jones Co.
Ga., Atlanta
Pratt Engineering & Machinery Co.
Ill., Chicago
Adams & Westlake Co., Ontario and Franklin Sts.
Federal Brass Works, 3100 S. Kenzie St.
Griffin Wheel Co., 332 S. Michigan Ave.
Illinois Engineering Co., Racine Ave. and 21st St.
Imperial Brass Mfg. Co., 524 S. Racine Ave.
Ind., Indianapolis
Keyless Lock Co., 1401 Newman St.
Nordyke & Marmon Co., 1290 Kentucky Ave.
Iowa, Burlington
Murray Iron Works Co.
Ky., Louisville
Ahrens & Ott Mfg. Co., 325 W. Main St.
Maine, Bath
Bath Iron Works, Ltd.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Maryland Brass Metal Works, Guilford and Girard Aves.
Poole Engineering & Machinery Co., Woodbury
Mass., Boston
American Tool & Machine Co., 10 High St.
McCallan Co., 11 Macallen St.
Mass., Worcester
Rice Barton & Fales Machine & Iron Co.
Mich., Detroit
Detroit Brass Works, Brooklyn and Belt Line
General Aluminum & Brass Castings Co., Grand Blvd. and St. Aubin St.
Mich., Three Rivers
Sheffield Car Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
Mo., Springfield
United Iron Works
N. J., Arlington
Lovell & Co., F. H.
N. Y., Brooklyn
Atlantic Smelting & Refining Works, 36-42 Delavan St.
Bliss Co., E. W., 19 John St.
Doehler Die-Castings Co., 9th and Court Sts.
N. Y., Buffalo
Lumen Bearing Co., 1155 Sycamore St.
Titanium Alloy Mfg. Co.

Castings, Brass—*cont.*

N. Y., New York City
American Brass Forging Co., Inc., 168 Southern Blvd.
Bronze Metal Co., 30 Church St.
Burhorn Co., Edwin, 71 Wall St.
Gerdes & Co., Inc., 30 Church St.
Henry-Bonnard Bronze Co., 20 Exchange Pl.
Magnus Co., The, 111 Broadway
Metals Production Equipment Co., 165 Broadway
Roos' Sons, August, 429 E. 91st St.
Wilfert Co., John, 259 Broadway

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
Titanium Bronze Co., The

Ohio, Alliance
Morgan Engineering Co.

Ohio, Cincinnati
American Copper & Brass Works, 612 E. Front St.
American Valve & Meter Co., 2833 Spring Grove Ave.
Crane & Breed Mfg. Co., 1227 W. 8th St.
Lunkenheimer Co., Beekman and Waverly Sts.
Van Dusen Co., E. W., 1428 E. 2d St.

Ohio, Cleveland
Aluminum Castings Co., 6205 Carnegie Ave.
Bartlett & Snow Co., C. O., 1040 French St.
Buckeye Brass & Mfg. Co., 1807 Columbus Road

Ohio, Dayton
Buckeye Iron & Brass Works

Ohio, Youngstown
Todd Co., Wm.

Pa., Chester
Wetherill & Co., Robert

Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
American Manganese Bronze Co., Rhawn and Hegeman Sts.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
North American Smelting Co., 9th and Thompson Sts.

Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
Damascus Bronze Co., 928 South Ave.
Keystone Bronze Co., 39th St. and A. V. R. R.
Lawrenceville Bronze Co., 3036 Penn Ave.
Pittsburgh Valve Foundry & Construction Co.

Pa., Scranton
Everhart Brass Works

Pa., South Bethlehem
Bethlehem Steel Co.

Wash., Seattle
Seattle Brass Co.

Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Wisconsin Foundry Co., 1138 32d St.

Castings, Bronze *(see Castings, Brass)*

Castings, Caustic *(see Castings, Chemical)*

Castings, Chemetal

N. Y., L. I., Rockville Center
Nassau Valve & Pump Co., Inc.

Castings, Chemical

Ala., Birmingham
American Cast Iron Pipe Co.

Ga., Atlanta
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.

Ill., Batavia
Sperry & Co., D. R.

Ill., Chicago
Jones Foundry & Machinery Co., W. A., 4404 W. 12th St.

Md., Baltimore
Bartlett-Hayward Co.

Mass., Boston
Badger & Sons Co., E. B., 63–75 Pitts St.

Mass., Fall River
Scott & Co., Ernest

Mich., Detroit
Russell Wheel & Foundry Co.

Mich., Muskegon
Muskegon Boiler Works

N. J., Carteret
Wheeler Condenser & Engineering Co.

N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.

N. J., Elizabeth
Moore & Sons Corp., Samuel L.

N. J., Harrison
Driver-Harris Wire Co.

N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.

N. J., Newark
Acid Proof Iron Products Co., Inc., 141 Hermon St.

N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co., 26 Winchester St.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
Farrar & Trefts, 47 Perry St.

Castings, Chemical—*cont.*

N. Y., New York City
American Car & Foundry Co., 165 Broadway
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
Metals Production Equipment Co., 165 Broadway
Roos' Sons, August
Stevens Brothers, 928 Singer Bldg.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Day Co., J. H.
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Cleveland
Steel Improvement & Forge Co., 5000 Winsor Ave.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Midvale Steel Co., Widener Bldg.
Oat & Sons, Joseph, 230 Quarry St.
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.
Pa., Pittsburgh
Aluminum Co. of America
Edgewater Steel Co.
Marshall Foundry Co., 28th and R.R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.
Pa., Williamsport
Valley Iron Works
Va., Lynchburg
Lynchburg Foundry Co.

Castings, Chemical, Acid Resistant Bronze

Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Castings, Chemical, Special Mixture Metals

Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Castings, Copper (*see also Castings, Brass*)

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co.
Zaremba Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Columbian Bronze Corporation, 50 Church St.
Ohio, Cincinnati
Lunkenheimer Co.
Ohio, Cleveland
Tyler Co., W. S.
Pa., Pittsburgh
Keystone Bronze Co.
Pittsburgh Valve Foundry & Construction Co.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Castings, Furnace, Iron

Pa., Fullerton
Fuller-Lehigh Co.

Castings, Iron

Pa., Fullerton
Fuller-Lehigh Co.

Castings, Iron, Chilled

Pa., Fullerton
Fuller-Lehigh Co.

Castings, Iron, Malleable

Conn., Branford
Branford Iron Fittings Co.
Conn., Bridgeport
Bridgeport Malleable Iron Works
Conn., New Britain
North & Judd Co.
Vulcan Iron Works
Ill., Chicago
Illinois Malleable Iron Co., 1804 Diversey Blvd.
Link Belt Co., W. 39th St. and Stewart Ave.
Ind., Indianopolis
National Malleable Castings Co.
Md., Baltimore
Bartlett-Hayward Co.
N. Y., Buffalo
Acme Steel & Malleable Iron Works
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Erie
Jarecki Iron Co.
Wis., Milwaukee
Chain Belt Co.

Castings, Manganese Bronze

N. Y., New York City
Columbian Bronze Corporation, 50 Church St.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Ajax Metal Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Castings, Manganese Steel

Ill., Chicago
American Manganese Steel Co., McCormick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Castings, Monel Metal

N. J., Bayonne
Bayonne Casting Co.
N. Y., Buffalo
Buffalo Forge Co.
Ohio, Cincinnati
Lunkenheimer Co.

Castings, Nichrome (*see also Castings, Acid Resistant*)

Castings, Nickel

Ill., Chicago
American Steel Foundries, McCormick Bldg.
N. J., Bayonne
Bayonne Casting Co.
N. Y., Buffalo
Buffalo Forge Co.
Pa., Pittsburgh
Williams & Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Castings, Resistant to High Temperatures

Ala., Birmingham
American Cast Iron Pipe Co.
N. J., East Burlington
U. S. Casting Iron Pipe & Foundry Co.
N. Y. Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., Philadelphia
Chester Steel Castings Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Castings, Steel, Crucible

Cal., Los Angeles
Llewellyn Iron Works
Cal., San Francisco
Bethlehem Shipbuilding Corporation
Conn., Branford
Malleable Iron Fittings Co.
Conn., New Haven
American Steel & Wire Co.
Ill., Chicago
American Steel Foundries, McCormick Bldg.
American Steel & Wire Co.
Chicago Steel Foundry Co.
Crane Co., 830-840 S. Michigan Ave.
Link Belt Co., W. 39th and Stewart Ave.
Iowa, Bettendorf
Bettendorf Co.
Mich., Detroit
Detroit Steel Casting Co.
Minn., Minneapolis
Western Crucible Steel Castings Co.
N. J., Bayonne
Bayonne Steel Casting Co.
N. J., Chrome
Chrome Steel Works
N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co.
Zaremba Co.
N. Y., New York City
American Bridge Co., 30 Church St.
Worthington Pump & Machinery Corporation, 113 Broadway
Ohio, Alliance
Morgan Engineering Co.
Reeves Bros. Co.
Ohio, Middleton
American Rolling Mill Co.
Pa., Brackenridge
Allegheny Steel Co.
Pa., Braddock
Braddock Steel Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Coatsville
Coatesville Boiler Works
Pa., Johnstown
Lorain Steel Co.
Pa., Philadelphia
Chester Steel Co., Oliver Bldg.
Pa., Pittsburgh
Duquesne Steel Co.
Pittsburgh Valve Foundry & Construction Co.
Pressed Steel Car Co.
Union Steel Castings Co.
Pa., Reading
Reading Steel Foundry Co.
Pa., Sharon
Sharon Foundry Co.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Chain Belt Co.

Cathetometers

N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Cathodes

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 Kenzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
N. Y., New York City
Eimer & Amend, Third Ave., at 18th St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co.

Cathodes, Gold

N. J., Newark
Baker & Co., H. J.
N. Y., Niagara Falls
Acheson Graphite Co.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Pa., Philadelphia
*Scientific Materials Co., 711-19 Forbes St.

Cathodes, Graphite

N. Y., Niagara Falls
International Acheson Graphite Co.

Cathodes, Platinum

N. Y., Newark
Baker & Co., H. J.
American Platinum Co., 225 N. J. R. R. Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Cathoters

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Causticizing Apparatus

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., D. R., Morgan Bldg.

Caustic Soda Apparatus

Ill., Chicago
Cannon-Swenson Co., 53 W. Jackson Blvd.
Me., Portland
Electron Chemical Co.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mass., Springfield
Green Co., Samuel L.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., D. R., Morgan Bldg.
N. Y., New York City
Dorr Co., 101 Park Ave.
Electrolytic Engineering Corporation, 501 Fifth Ave.
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 21 South 12th St.

Caustic Soda Recovery Apparatus

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Dorr Co., 101 Park Ave.

Ceilings, Steel

Ohio, Canton
Berger Mfg. Co.

Cells, Acid Proof Diaphragm

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Cells, Allen More Electrolytic

Maine, Portland
Electron Chemical Co., 534 Congress St.

Cells, Electrolytic

Maine, Portland
Electron Chemical Co., 534 Congress St.
Mass., Springfield
Green Co., Samuel M.
Mich., Saginaw, W. S.
Nickle, Frank H., 1321 N. Bond St.
N. Y., New York City
Electrolytic Engineering Corporation, 501 Fifth Ave.
Electrolytic Oxy-Hydrogen Laboratories, 15 William St.
Hooker Electrolytic Chemical Co., 40 Wall St.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Ohio, Dayton
Electro Chemical Co., 111 W. Court St.

Cells, Leaching

Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
N. Y., Buffalo
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
Hooker Electrolytic Chemical Co., 40 Wall St.

Cells, Sodium Hypochlorite

Ohio, Dayton
Electro Chemical Co., 111 W. Court St.

Celluloid Machinery

Conn., Ansonia
Farrel Foundry & Machine Co.
Ill., Chicago
Caldwell & Son Co., W. H.
Link-Belt Co.
Stroud & Co., E. H.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Cement Machinery

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Frankfort
Acme Road Machinery Co.
N. Y., New York City
Aero Pulverizer Co., 120 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Hill Clutch Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cement Testing Apparatus

N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Cement Testing Machines

Cal., San Francisco
*Braun-Knecht-Heimann Co., 576 Mission St.
Ill., Chicago
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Humboldt Mfg. Co., 2014 Nebraska Ave.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., 238 W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Centrifugals, Clarifying

Mass., Boston
American Tool & Machine Co., 10 High St.
International Equipment Co., 353 Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Hepworth Co., S. S., 2 Rector St.
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
Fletcher Works, Glenwood Ave. and 2d St.
Pa., West Chester
Sharples Specialty Co.

Centrifugals, Clarifying and Filtering

Pa., West Chester
Sharples Specialty Co.

Centrifugals, Hand Power

Pa., West Chester
Sharples Specilaty Co.

Centrifugals, Industrial

Del., Wilmington
Pusey & Jones Co.
La., New Orleans
Joubert & Goslin Machine & Foundry Co., Howard and Euphrosine Sts.
Mass., Boston
American Tool & Machine Co., 10 High St.
International Equipment Co., 352 Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Buffalo
Buffalo Forge Co.
Squier Mfg. Co., Broadway and Mortimer Sts.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Hepworth Co., S. S., 2 Rector St.
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
Cresson-Morris Co., 18th and Allegheny Ave.
Ott Co., George F., 213 Buttonwood St.
Fletcher Works, Glenwood and North America Sts.
Pa., West Chester
Sharples Specialty Co.

Centrifugals, Laboratory

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Deegan Supply Co., 116–122 W. Illinois St.
Mass., Boston, Brighton Sta.
International Equipment Co., 353 Western Ave.
N. Y., New York City
*Bouline, Victor J., 1 Union Sq.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.
Pa., West Chester
Sharples Specialty Co.

Centrifugals, Nitrating

N. Y., Troy
Tolhurst Machine Works

Centrifugals, Oil

Ill., Chicago
Troy Laundry Machinery Co., 23d and La Salle Sts.
Mass., Boston
American Tool & Machine Co., 10 High St.
National Separator & Machine Co., 89 State St.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Pa., Philadelphia
Oil & Waste Saving Machine Co., 1509 Real Estate Trust Bldg.
Pa., West Chester
Sharples Specialty Co.

Centrifugals, Special

N. J., Trenton
DeLaval Steam Turbine Co.

Centrifugals, Separating

Mass., Boston
American Tool & Machine Co., 10 High St.
International Equipment Co., 353 Western Ave.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., New York
Hepworth Co., S. S., 2 Rector St.
DeLaval Separator Co., 165 Broadway
N. Y., Troy
Tolhurst Machine Works
Pa., West Chester
Sharples Specialty Co.

Centrifugals, Sugar

Del., Wilmington
Pusey & Jones Co.
La., New Orleans
Haubtman & Loeb Co., 1717 Magazine St.
Murphy, Jno. H., 643 Magazine St.
Payne & Joubert, 2304 Euphrosine St.
N. Y., Brooklyn
Pioneer Iron Works, 149 Pioneer St.
N. Y., Buffalo
Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.

Centrifugals, Sugar—*cont.*

N. Y., New York City
Cutan Engineering Corporation, 50 Broad St.
Deeley & Co., Robt., 29 Broadway
DeLaval Separator Co., 165 Broadway
Hepworth Co., S. S.
Turl's Sons, Jno., 55 Liberty St.
Pa., West Chester
Sharples Specialty Co.

Centrifuges (*see also Centrifugals*)

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
Mass., Boston
International Equipment Co., 352 Western Ave.

Centrifuges, Electric

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
Victor Electric Corporation, 246 S. Robey St.

Chains

Conn., Bridgeport
American Chain Co., Inc.
Conn., New Haven
Sargent & Co.
Conn., Waterbury
American Brass Co.
Plume & Atwood Mfg. Co.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
American Manganese Steel Co., McCormick Bldg.
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th and Stewart Ave.
N. J., Trenton
Roeblings Sons Co., John A.
N. Y., Ithaca
Morse Chain Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 80 Lafayette Ave.
Ingersoll & Brother, R. H., 315 4th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co., 744 Park St.

Chamber Plant Details

Mass., Fall River
Scott & Co., Ernest
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Chamois

Mass., Boston
Clark Co., A. B., 107 South St.
N. J., Newark
Newark Chamois Co.
N. Y., New York City
American Sponge & Chamois Co., Inc., 73 Wooster St.
Laskor & Bernstein, 161 William St.
Leousi, Clonney & Co., 39 Walker St.
Rhodes & Co., James H., 162 William St.
Young Co., Richard, 36 Spruce St.
Borgfeldt & Co., Geo., 16th and Irving Pl.
McKesson & Robbins, 91 Fulton St.
National Sponge & Chamois Co., 158 William St.
Pa., Philadelphia
Burk & Co., Wm. B., 534 Arch St.
Drueding Bros. Co., 5th and Master Sts.
Smith, Kline & French Co.
Pa., Scranton
Black Horn Sales Co.

Chemical Apparatus (*see Laboratory Apparatus and Equipment; Specific Headings.*)

Chemical Engines

Mass., Boston
Badger Fire Extinguisher Co., Inc., 34 Portland St.

Chemical Equipment (*see Specific Headings*)

Chewing Gum Machinery

Mich., Saginaw
Werner & Pfleiderer Co. 1260 N. Niagara St.

Chilling Machines

Ill., Chicago
Link-Belt Co.
Peerless Ice Machine Co.

Chilling Machines—*cont.*

Ky., Louisville
Vogt Machine Co., Henry
Mo., St. Louis
Brecht Co.
N. Y., New York City
De LaVergne Machine Co., 1136 E. 138th St.
Pa., Carbondale
Carbondale Machine Co.
Pa., York
York Mfg. Co.

Chimneys, Iron and Steel

Md., Baltimore
Bartlett, Hayward Co.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
Ohio, Alliance
Reeves Brothers Co.
Ohio, Akron
Biggs Boiler Works
Pa., Chester
Wetherill & Co., Robert
Pa., Coatesville
Coatesville Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Chimneys, Radial Brick and Concrete

Ill., Chicago
*Weber Chimney Co., 332 S. Michigan Ave.
Mich., Detroit
Trussed Concrete Steel Co.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Pa., Pittsburgh
Rust Engineering Co., Keenan Bldg.

Chlorinating Apparatus (*see Chlorine Plants*)

Chlorine Plants

Mass., Boston
Badger & Sons Co., E. B.
Little Co., Arthur D.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester Ave.
N. Y., New York
General Ceramics Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Philadelphia
Electro Chemical Supply & Engineering Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Chlorinators

N. Y., New York City
Palo Co., 90 Maiden Lane

Chlorine Electrolytic Cells (*see Cells, Electrolytic*)

Chlorine Electrolytic Plants

Me., Portland
Electron Chemical Co.
N. Y., New York City
Electrolytic Engineering Corporation, 501 Fifth Ave.
Foundation Co., The Woolworth Bldg.
Hooker Electrochemical Plants, 40 Wall St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Chloroform Plants

Ill., Chicago
Kaestner & Hecht Co., Inc.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Chocolate Machinery

Mass., Boston
New England Chocolate Machinery Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cincinnati
Day Co., J. H.

Churns

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Iowa, Cedar Rapids
Cherry Co., J. G.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Little Falls
Burrell Co., D. H.
N. Y., Long Island City
Jensen Creamery Machine Co.

Chutes

Ill., Chicago
Fairbanks-Morse & Co., 90 S. Wabash Ave.
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Sturtevant Mill Co.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Pittsburgh
Scaife & Sons Co., W. B., First Nat. Bank Bldg.
Pa., Sharon
Petroleum Iron Works Co.

Chutes, Gravity Spiral

Pa., Ellwood City
Mathews Gravity Carrier Co.

Circuit Breakers

Mass., South Boston
Condit Electrical Mfg. Co.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Clamps, Adjustable

Conn., Branford
Malleable Iron Fittings Co.
Mass., Boston
Walworth Mfg. Co.
Pa., Erie
Javecki Mfg. Co.

Clamps, Laboratory *(see Laboratory Apparatus and Equipment)*

Clamps, Pipe Joint

Mass., Boston
Walworth Mfg. Co.
Ohio, Cleveland
National Malleable Castings Co.

Clarification Plants

Pa., West Chester
Sharples Specialty Co., The

Clarifiers *(see also Centrifugals)*

Cal., Los Angeles
Llewellyn Iron Works, 120 N. Main St.
Col., Denver
Colorado Iron Works Co.
Denver Iron Works Co., 30th and Blake Sts.
Ill., Chicago Heights
Chalmers & Williams, Inc.
N. J., Newark
James Ore Concentrator Co.
N. Y., New York City
De Laval Separator Co., 165 Broadway
Dorr Co., The, 17 Battery Pl.
Mine & Smelter Supply Co., 42 Broadway
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., West Chester
Sharples Specialty Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Clarifiers, Centrifugal *(see Centrifugals, Clarifying)*

Clarifiers, Sugar *(see Centrifugals, Sugar)*

Clarifiers, Vacuum

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Classifiers, Adkins

Colo., Denver
Colorado Iron Works Co.

Classifiers, Hydraulic

Colo., Denver
Colorado Iron Works Co.

Classifiers, Metallurgical

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works
Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., New York City
Dorr Co., 101 Park Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Clay Working Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulveriser Co., Old Colony Bldg.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Dorr Co., The, 17 Battery Pl.

Clay Working Machinery—*cont.*

Mich., Saginaw
Werner & Pfleiderer, Inc., 1260 N. Niagara St.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Dayton
International Clay Machinery Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Chambers Bros. Co., 52d and Media St.

Cleaners, Boiler Tube

Ill., Chicago
Ryerson & Son, Joseph T.
N. Y., New York City
Johns-Manville Co., Madison Ave. and 41st St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Houghton & Co., 240 W. Somerset St.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., First Nat. Bank Bldg.

Cleaners, Coal

Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Sackett Screen & Chute Co., 1681 Elston Ave.
Weller Mfg. Co., 1820 N. Kostner Ave.
Mass., Clinton
Clinton Wire Cloth Co.
Mass., Worcester
Wright Wire Co.
N. J., Newark
Newark Wire Cloth Co., 228 Verona St.
N. J., Trenton
N. J. Wire Cloth Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Cleaners, Condenser

Ohio, Springfield
Lagonda Mfg. Co., 1809 Sheridan Ave.

Cleaners, Ore *(see Cleaners, Coal)*

Cleaners, Vacuum

Ind., Connersville
Connersville Blower Co.

Clips, Test Tube (Wooden)

N. Y., New York City
*Estes & Sons, E. B., 362 5th Ave.

Cloth, Asbestos

N. J., Manville
Johns-Manville Co.
N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Ohio, Lockland
Carey Mfg. Co., Philip

Cloth, Bolting

Mich., Detroit
Michigan Wire Cloth Co., 504 Howard St.
N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., Brooklyn
National Filter Cloth & Weaving Co.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Multi-Metal Separating Screen Co., 255 W. 19th St.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cloth, Bolting, Metallic

N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.

Cloth, Centrifugal

Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 255 W. 19th St.
Provost Engineering Corp., 220 Broadway
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Cloth, Filter

Ill., Batavia
Sperry & Co., D. R.
Allbright-Nell Co., 5225 Southwestern Blvd.
Ga., La Grange
Unity Cotton Mills
Ill., Chicago
Channon Co., H., Market and Randolph Sts.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th Ave.
N. J., Harrison
Shriver & Co., T., 860 Hamilton St.
N. J., Newark
Newark Wire Cloth Co.
N. J., Passaic
Brighton Mills
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Brooklyn Filter Bag Co., 643 Kent Ave.
Johnson Co., John, 37th and 2d Ave.
National Filter & Cloth Weaving Co., 57 Hope St.
United Filters Corporation
N. Y., New York City
Boyle & Co., John, 112 Duane St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Lamb, Finlay & Co., 258 Church St.
Lane & Co., J. H., 334 4th Ave.
Multi Metal Co., Inc., 255 W. 19th St.
Provost Engineering Corp., 220 Broadway
*Turner, Halsey Co., 62 Leonard St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Oriskany
Waterbury & Sons Co., H.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Pa., Philadelphia
Supplee-Biddle Hardware Co.
Utah, Salt Lake City
Filter Fabrics Co., Felt Bldg.
Wis., Milwaukee
Milwaukee Bag Co., 206 S. Water St.

Cloth, Filter, Alkali Proof

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.

Cloth, Filter, Camel's Hair

La., New Orleans
Mente & Co.

N. Y., New York City
*Boyle & Co., 112 Duane St.
Goepel & Co., L. F., 137 E. 13th St.
*Turner, Halsey Co., 62 Leonard St.

Cloth, Filter, Cotton

Ill., Batavia
Allbright-Nell Co., 5225 Southwestern Blvd.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th Ave.
N. J., Passaic
Brighton Mills
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Brooklyn Filter Bag Co., 643 Kent Ave.
Johnson Co., John, 37th and 2d Ave.
N. Y., New York
Boyle & Co., Inc., John, 112 Duane St.
*Turner, Halsey Co., 62 Leonard St.
United Filters Corporation, 65 Broadway

Cloth, Filter, Metallic

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
American Wire Fabrics Co.
Mass., Boston
Clinton Wire Cloth Co.
N. J., Harrison
Shriver & Co., T.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 225 W. 19th St.
United Filters Corporation, 65 Broadway
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Cloth, Filter, Monel Metal

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.

Cloth, Filter, Special Grades

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., New York
Turner, Halsey Co., 62 Leonard St.

Cloth, Filter, Wire

Conn., Georgetown
Gilbert & Bennett
Ill., Batavia
Sperry & Co., D. R.
Mass., Clinton
Clinton Wire Cloth Co.
Mich., Detroit
Michigan Wire Cloth Co.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 80 La Fayette St.
Muti-Metal Co., Inc., 255 W. 19th St.
Provost Engineering Corporation, 220 Broadway
Ohio, Cleveland
Tyler Co., W. S.
Pa., Philadelphia
Supplee Biddle Hardware Co.

Cloth, Filter, Wool

Conn., Unionville
House & Sons
N. Y., Brooklyn
National Filter Cloth & Weaving Co., 57 Hope St.
N. Y., New York City
Boyle & Co., Inc., John, 112-114 Duane St.

Cloth Machinery, All Purposes

Conn., Middletown
Palmer Co., E. I.
Mass., Boston
Riley Co., C. E., 65 Franklin St.
Mass., Holyoke
Holyoke Machine Co.
Mass., Hopedale
Draper & Co.
Mass., Orange
Hunt Machine Co., R.
Mass., Worcester
Curtis & Marble Machine Co.
N. Y., Troy
Tolhurst Machine Works
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Philadelphia Drying Machine Co.
Philadelphia Textile Machinery Co., 6th St. and Tabor Road
R. I., Providence
Textile Finishing Machinery Co.

Cloth, Metal (*see also Specific Headings*)

N. Y., New York City
United Filters Corporation, 65 Broadway

Cloth, Waterproof

Del., Wilmington
Du Pont Fabrikoid Co.
Ill., Chicago
Lehon Co., W., 45th and Oakley Ave.
N. Y., New York City
Boyle & Co., 112 Duane St.
Hydrex Felt & Eng. Co., 120 Liberty St.
International Rubber Co., 120 Broadway

Cloth, Wire, Monel Metal

N. J., Harrison
Driver-Harris Co.
N. J., Newark
Newark Wire Cloth Co.
Mass., Boston
Clinton Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S.
Pa., Philadelphia
Supplee-Biddle Hardware Co., 507 Commerce St.

Cloth, Wire, Screening (*see Cloth, Wire*)

Clothing, Rubber, Acid Resisting

Ohio, Akron
Goodrich Rubber Co., B. F., S. Main St.

Clutches, Friction

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th and Stewart Ave.
Ky., Louisville
Caldwell Co., W. E.
Mass., Boston
American Tool & Machine Co., 10 High St.
Md., Baltimore
Poole Engineering & Machine Co.
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.

Clutch Facings, Cork Insert

Mass., Boston
Cork Insert Co., 164 Federal St.

Coal Briquetting Machinery

N. Y., New York City
General Briquetting Co., Inc., 41 Broadway
Mashek Engineering Co., 90 West St.
Pa., Allentown
Traylor Engineering & Machine Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Coal Burning Equipment, Powdered

Ill., Chicago
*Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.

Coal Crushers (*see Crushers, Coal*)

Coal Gas By-Product Plants (*see Coke By-Products Plants*)

Coal Gas Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
N. Y., New York City
Improved Equipment Co., 60 Wall St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Philadelphia
United Gas Improvement Co., 1514 S. Broad St.
Wood & Co., D. R., 400 Chestnut St.

Coal Gas Scrubbers (*see Scrubbers*)

Coal Handling Machinery

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Goodman Mfg. Co., Halstead St. and 48th Pl.
Link-Belt Co., W. 39th and Stewart Ave.
Stroud & Co., E. H., 928 Fullerton Ave.
Sullivan MacInery Co., People's Gas Bldg.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead Morrison Mfg. Co.
N. Y., New York City
Guarantee Construction Co., 90 West St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Ingersoll Rand Co., 11 Broadway
Van Emden Co., H., 145 W. 45th St.
Wellman-Seaver-Morgan Co., 50 Church St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cincinnati
Alvey-Ferguson Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 954 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co., 734 Park St.

Coal Pulverizers (*see Pulverizers, Coal*)

Coal Repairing Equipment

Pa., Carbondale
Cross Engineering Co.
Pa., Pittsburgh
Pittsburgh Coal Washer Co., 812 Fulton Bldg.
W. Va., Fairmont
Fairmont Mining Machinery Co.

Coal Separators (*see Separators*)

Coal Storage Installations (*see Coal Handling Machinery*)

Coal Tar Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-65 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
Little Co., Arthur, Charles River Rd.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Coal Tar Recovery Apparatus (*see Recovery Apparatus*)

Coal Testing Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 717 Forbes St.

Coal Washers (*see also Coal Handling Machinery*)

Pa., Pittsburgh
Pittsburgh Coal Washer Co., 812 Fulton Bldg.

Coating Machinery

Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Detroit
Colton Co., Arthur
N. Y., Rochester
Knowlton Co., M. D.
Pa., Philadelphia
Moore & White Co.
Stokes Machine Co., F. J.

Coating Spray Machines Cooperage

Ohio, Cleveland
Eureka Machine Co., 2610 Vega Ave.

Coats, Laboratory (*see Aprons*)

Cocks, Acid Proof

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.
Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
Wilfert Co., John, 259 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverley Sts.
Ohio, East Akron
Knight, Maurice A.
Pa., Erie
Jarecki Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co.

Cocks, Air

Ill., Chicago
Crane Co., 830-836 S. Michigan Ave.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Wilfert Co., John C., 259 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co.
Ohio, Cleveland
Bishop & Babcock Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Cocks, Brass

Ohio, Cincinnati
Lunkenheimer Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4626 Hamilton Ave.
Pa., Pittsburgh
National Tube Co.

Cocks, Bronze (*see Cocks, Brass*)

Cocks, Filter Press

Ill., Batavia
Sperry Co., D. R.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverley Sts.

Cocks, Flanged

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
Jenkins Brothers 80 White St.
Wilfort Co., John, 259 Broadway
Ohio, Cincinnatti
Lunkenheimer Co., Beekman & Waverly.
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Erie
Jarecki Mfg. Co.
Pa. Pittsburgh
National Tube Co., Frick Bldg.

Cocks, Four Way

Ill., Chicago
Crane Co., 830-836 S. Michigan Ave.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Cocks, Gauge

Ill., Chicago
Crane Co., 830-836 S. Michigan Ave.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.
N. Y., New York City
Wilfert Co., John C., 259 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Cocks, Hard Lead

N. Y., New York City
United Lead Co., 111 Broadway

Cocks, Hydraulic

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., New York City
Wilfert Co., John C., 259 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cleveland
Bishop & Babcock Co.

Cocks, Plug

N. Y., New York City
Duriron Castings Co., 90 West St.
Ohio, Cincinnati
Lunkenheimer Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Cocks, Rubber

N. Y., New York City
American Hard Rubber Co.
Pennsylvania Rubber Co.
U. S. Rubber Co., 1790 Broadway

Cocks, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice Co.

Cocks, Stop

Ill., Chicago
Crane Co., 830-836 S. Michigan Ave.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.
Standard Sanitary Mfg. Co.

Cocks, Three Way

Ill., Chicago
Crane Co., 830-836 S. Michigan Ave.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Wilfert Co., John C., 259 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Cocoa Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Coilers, Flexible Shaft Casing and Metallic Tubings

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coiling Machines, Spring and Wire

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coiling Machines, Tungsten Filament

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coils, Acid Proof, Stoneware

N. Y., New York City
General Ceramics Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Coils, Aluminum

Conn., New Haven
United Smelting & Aluminum Co., Inc.
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.

Coils, Ammonia

Ky., Louisville
Vogt Machine Co., Henry
N. J., Brunswick
Brunswick Refining Co.
N. Y., New York City
De La Vergne Machine Co., E. 138th St.
Wilfert Co., John, 258 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Coils, Brass

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Roos Sons, August, 429 E. 91st St.
Wilfert Co., John, 258 Broadway
Pa., Philadelphia
Philadelphia Pipe Bending Co.

Coils, Cast Iron Enameled Condenser

England, Deepfields, nr. Bilston, Staffs.
Cannon Iron Foundries, Ltd.

Coils, Chemical

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., Brooklyn
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
United States Stoneware Co.

Coils, Copper

Md., Baltimore
Baltimore Tube Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 30 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Roos Son, August, 429 E. 91st St.
Wilfert Co., John, 258 Broadway

Coils, Induction

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Philadelphia
Biddle, James G.
Queen-Gray Co.

Coils, Iron

N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 30 Church St.
Wis., Madison
Vilter Mfg. Co.

Coils, Lead

N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., Brooklyn
Abernethy, John F. 703 Myrtle Ave.
N. Y., New York City,
United Lined Tube & Valve Co., 111 Broadway

Coils, Pipe (*see also Specific Headings*)

Conn., Hartford
Whitlock Coil Pipe Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Cox Engineering & Tube Bending Machine Works
Simmons Co., John, 110 Centre St.
Wilfert Co., John, 258 Broadway
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Coils, Platinum

N. J., Newark
American Platinum Works, 281 N. J. R. R. Ave.
Bishop & Co., Inc., 54 Austin St.
Pa., Malvern
Bishop & Co., J., Platinum Works

Coils, Tubular

Conn., Hartford
Whitlock Coil Pipe Co.

Coil Winders, Resistance

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coke Oven By-Products Plants

Colo., Denver
American Coal Reduction & By-Products Co.
Ill., Chicago
Universal Engineering Co., 700 W. 22d St.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
Little Co., Arthur D., Charles River Rd.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Sq., W.
Otto Coking Co., 6 Church St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., Pittsburgh
Koppers Co., H., Union Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Coke Ovens, Retort

Ill., Chicago
American Refractories Co., 208 S. La Salle St.
Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
Otto Coking Co., 6 Church St.
N. Y., Syracuse
Semet-Solvay Co.
Pa., Pittsburgh
Coal & Coke By-Products Co.
Koppers Co., H., Union Ave.

Coke Screening Machinery (*see Screens*)

Coke Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Collecting Systems, Dust

Ill., Chicago
Clark Dust Collecting Co., 1116 Fisher Bldg.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant & Co., Harrison Sq.
Md., Baltimore
Dixie Mfg. Co., Inc.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway

Colorimeters

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mass., Boston
International Equipment Co., 352 Western Ave.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Bausch & Lomb Optical Co., St. Paul St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Coloring and Tempering Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Color Plants (*see also Mills, Color*)

Colorscopes

Ill., Chicago
Briedler Co., J. L., 334 S. Clinton St.

Columns, Absorbing

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Distilling

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Fractionating

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Ind., Fort Wayne
Western Gas Constuction Co.
Mo., St. Louis
Laclede Steel Co., 415 Pine St.
N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Altoona
Altoona Iron Co.
Pa., Lehigh
Lehigh Foundry Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co., Carnegie Bldg.
National Tube Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Columns, Rectifying

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Combustion Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Coils, Pipe (*see also Specific Headings*)

Conn., Hartford
Whitlock Coil Pipe Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Cox Engineering & Tube Bending Machine Works
Simmons Co., John, 110 Centre St.
Wilfert Co., John, 258 Broadway
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Coils, Platinum

N. J., Newark
American Platinum Works, 281 N. J. R. R. Ave.
Bishop & Co., Inc., 54 Austin St.
Pa., Malvern
Bishop & Co., J., Platinum Works

Coils, Tubular

Conn., Hartford
Whitlock Coil Pipe Co.

Coil Winders, Resistance

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coke Oven By-Products Plants

Colo., Denver
American Coal Reduction & By-Products Co.
Ill., Chicago
Universal Engineering Co., 700 W. 22d St.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
Little Co., Arthur D., Charles River Rd.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Sq., W.
Otto Coking Co., 6 Church St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., Pittsburgh
Koppers Co., H., Union Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Coke Ovens, Retort

Ill., Chicago
American Refractories Co., 208 S. La Salle St.
Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
Otto Coking Co., 6 Church St.
N. Y., Syracuse
Semet-Solvay Co.
Pa., Pittsburgh
Coal & Coke By-Products Co.
Koppers Co., H., Union Ave.

Coke Screening Machinery (*see Screens*)

Coke Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Collecting Systems, Dust

Ill., Chicago
Clark Dust Collecting Co., 1116 Fisher Bldg.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant & Co., Harrison Sq.
Md., Baltimore
Dixie Mfg. Co., Inc.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway

Colorimeters

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mass., Boston
International Equipment Co., 352 Western Ave.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Bausch & Lomb Optical Co., St. Paul St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Coloring and Tempering Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Color Plants (*see also Mills, Color*)

Colorscopes

Ill., Chicago
Briedler Co., J. L., 334 S. Clinton St.

Columns, Absorbing

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Distilling

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Fractionating

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Ind., Fort Wayne
Western Gas Constuction Co.
Mo., St. Louis
Laclede Steel Co., 415 Pine St.
N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Altoona
Altoona Iron Co.
Pa., Lehigh
Lehigh Foundry Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co., Carnegie Bldg.
National Tube Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Columns, Rectifying

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Combustion Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Combustion Boats

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Scientific Materials Co.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., Murray and Austin Aves.
N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.
Scientific Materials Co., 711-719 Forbes St.

Combustion Boats, Alundum

Mass., Worcester
Norton Co., New Bond St.

Combustion Tubes, (*Consult Combustion Boats*)

Comparators

Ill., Chicago
*Gaertner & Co., Wm., 5345 Lake Park Ave.
N. J., Newark
Weston Electrical Instrument Co.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
N. Y., Rochester
Bausch & Lomb Optical Co.

Compensators, Automatic

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Compounds, Acid Proofing

Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Co., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Texas Co., 17 Battery Pl.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.

Compounds, Cable

Mo., St. Louis
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Schenectady
General Electric Co.

Compounds, Case Hardening

N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Buchanan Chemical Co., 121 E. Pearl St.

Compounds, Cement

N. Y., New York City
Certain-teed Products Corp., 314 N. Broadway

Compounds, Coloring

Conn., Stamford
Celluloid Zapon Co.
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.

Compounds, Cutting

N. Y., New York City
Oakley Chemical Co., 40 Thomas St.

Compounds, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Compounds, Grinding

N. Y., New York City
Oakley Chemical Co., 40 Thomas St.

Compounds, Hardening (*see Compounds, Case Hardening*)

Compounds, Impregnating

Ohio, Cleveland
Sherwin-Williams Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Insulating

Ill., Chicago
Redmanol Products Co.. 636 W. 22nd St.
Mo., St. Louis
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
Certain-teed Products Co., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st Sts.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Moulding

Conn., Stamford
Celluloid Zapon Co.
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
General Bakelite Co., 2 Rector St.

Compounds, Plating

N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Klipstein & Co., A., 644 Greenwich St.

Compounds, Preservative

Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Johns-Manville Co., Madison Ave. and 41st St.
Klipstein & Co., A., 644 Greenwich St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.

Compounds, Tank Lining

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Toch Brothers, 320 5th Ave.

Compounds, Tempering (*see Compounds, Case Hardening*)

Compounds, Transformer

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.

Compounds, Waterproofing

Conn., South Norwalk
Nash Engineering Co.
Del., Wilmington
Du Pont de Nemours & Co., E. I.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condesnite Co. of America
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.

Compressors, Air

Cal., San Francisco
Oliver Continuous Filter Co.
Colo., Denver
Mine & Smelter Supply Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Chicago Pneumatic Tool Co., Fisher Bldg.
*Elmer, H. N., 53 W. Jackson Blvd.
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
Machinery Utilities Co., Inc., 501 5th Ave.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
U. S. Air Compressor Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Carbondale
Carbondale Machine Co.
Pa., Chester
Wetherill & Co., R. A.
Pa., Philadelphia
Otto Gas Engine Works
Pa., Pittsburgh
Westinghouse Air Brake Co.
Wis., Milwaukee
National Brake & Electric Co.
Allis-Chalmers Co.
Vilter Mfg. Co.

Compressors, Air, Electric

Md., Baltimore
Black & Decker Mfg. Co., 105 S. Calvert St.

Compressors, Air, Pneumatic

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.

Compressors, Ammonia

Conn., South Norwalk
Nash Engineering Co.
Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Ky., Louisville
Vogt Machine Co., Henry
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co., 1205 E. 138th St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Co.
Vilter Mfg. Co., 824 Clinton St.

Compressors, Centrifugal

N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Schenectady
General Electric Co.

Compressors, Gas

Conn., South Norwalk
Nash Engineering Co.
Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Chicago Pneumatic Tool Co., Fisher Bldg.
Sullivan Machinery Co., People's Gas Bldg.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Co.

Compressors, Lead (Steam Jet)

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Compressors, Tube

Ingersoll-Rand Co., 111 Broadway

Concentration Mills and Machinery (*see Concentrators*)

Concentrators, Acid

Cal., San Francisco
Senn Concentrator Co., First Nat. Bank Bldg.
Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swemson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Newark
Acid Proof Iron Product Co., 41 Herman St.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Duriron Casting Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corp., 31 Union Sq., W.
Machinery Utilities Co., Inc., 501 5th Ave.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Product Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Concentrators, Dry

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.

Concentrators, High

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Concentrators, Ore

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Cal., Oakland
Senn Concentrator Co.
Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Mine &Smelter Supply Co., Blake and 17th Sts.
Mass., Boston
Huff Electrostatic Separator Co., 60 India Sq.
N. Y., New York City
Dorr Co., The
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Allentown
Traylor Engineering & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Dings Magnetic Separator Co., 671 Smith St.

Condenser, Liebig

N. Y., Rochester
Will Corporation

Condensers, Acid

N. J., Newark
Acid Proof Iron Products Co., 47 Herman St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37-39 Murray St.
Stevens Brothers, 928 Singer Bldg.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Will Corporation
N. C., Charlotte
Chemical Construction Co.
Pa., Philadelphia
Blair Campbell & McLean Inc., Colonial Trust Bldg.

Condensers, Ammonia

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Ind., Fort Wayne
Western Gas Construction Co.
Ky., Louisville
Vogt Machine Co., Henry
Neb., Omaha
Baker Machine Co.
N. Y., New York City
De La Vergne Machine Co.
Pa., Waynesboro
Frick Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Condensers, Barometric

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1366 Clinton St.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Kellogg Co., The M. W., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Philadelphia
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Condensers, Coil

Mass., Boston
Lummus, Co., Walter E., 173 Milk St.

Condensers, Copper

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester St.
Ohio, Cincinnati
American Copper & Brass Works, The
Pa., North Philadelphia
Stokes Machine Co., F. J.

Condensers, Distilled Water

Ill., Chicago
Mohr & Son, John, 349-359 W. Illinois St.
Ind., Indianapolis
Castle Refrigerating Machine Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad St.

Condensers, Enameled

N. Y., New York City
Mott Iron Works, J. L., 118 Fifth Ave.
N. Y., Rochester
Pfaudler Co., Cutler Bldg.
Ohio, Elyria
Elyria Enameled Products Co.

Condensers, Gas

Ind., Fort Wayne
Western Gas Construction Co.

Condensers, Jet

Ind., Connersville
Connersville Blower Co.
Mass., Fall River
Scott & Co., Ernest
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 111 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Pa., E. Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Condensers, Laboratory

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Scientific Utilities., Inc., 84 E. 10th St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Fullerton
Fuller-Lehigh Co.

Condensers, Obnoxious Vapor

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Condensers, Oil Refining

Ohio, Niles
Standard Boiler & Plate Iron Co.

Condensers, Reflux

Mass., Boston
Badger & Sons Co., R. E., 63 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Thermal Syndicate Ltd., 50 E. 41st St.
Ohio, East Akron
Knight, Maurice A.
Pa., Bethlehem
Bethlehem Foundry & Machine Co.

Condensers, Steam (*see Condensers, Jet*)

Condensers, Surface (*see Condensers, Jet*)

Condensers, Synchronous

Pa., East Pittsburgh
Westinghouse Electric & Manufacturing Co.

Condensers, Tubular

Mass., Boston
Lummus Co., Walter E., 173 Milk St.

Condensers, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Allbright-Nell Co., 5225 Southwestern Blvd.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitt St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Sowers Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Cones, Filter, Alundum

Mass., Worcester
Norton Co.

Cones, Filter

N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th St.
General Ceramics Co., 50 Church St.
N. J., Newark
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Consistometers

N. Y., New York City
Chatillon & Sons, John, 85-93 Cliff St.

Constant Temperature Apparatus

Ill., Chicago
*Central Scientific Co., 360 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co.

Contacts

N. Y., Long Island City
Commercial Research Co.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
N. Y., Schenectady
General Electric Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Contacts, Platinum

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Containers

Mich., Detroit
Detroit Range Boiler Co.
N. Y., New York City
American Can Co., 120 Broadway
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Containers, Acid Resisting, Enameled.

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
Ohio, Elyria
Elyria Enameled Products Co.

Containers (for Heat Treatment Processes)

N. J., Garwood
Garwood Bronze & Iron Works

Containers, Hard Rubber

N. J., Trenton
Luzerne Rubber Co., Muirhead Ave.

Containers, Iron

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Containers, Pressed Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co., The

Containers, Pressed Steel, Lead Lined

N. Y., New York City
Pfaudler Co., The, 110 W. 40th St.

Containers, Steel, for Lead, Chemicals and Mixed Paints

Mich., Detroit
Detroit Range Boiler Co., 60 724th St.
Pa., Pittsburgh
Pittsburgh Can Co.

Control Equipment, Electric

N. Y., Schenectady
General Electric Co.

Control Systems, Remote

Ind., Fort Wayne
Bowser & Co., Inc., S. F.

Control, Thermostatic

N. Y., Albany
Consolidated Car Heating Co.

Controllers

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Controllers, Automatic

Ill., Rockford
Eclipse Fuel Engineering Co.

Controllers, Condensate

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controllers, Electric

N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Controllers, Evaporated Milk

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Controllers, Heat, Automatic

N. Y., New York City
American Gas Furnace Co., 24 John St.

Controllers, Liquid Level

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controllers, Temperature

Ill., Chicago
Unger, John S., 3344 Broadway
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., Rochester
Taylor Instrument Co., 95 Ames St.
Pa., Philadelphia
Brown Instrument Co.

Controlling Instruments (*see also Regulators*)

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Controls, Gas

Mich., Detroit
Steere Engineering Co., Woodward Ave.

Converters, Copper

Cal., San Francisco
Union Iron Works Co., 311 California Ave.
Colo., Denver
Colorado Iron Works Co.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Converters, Electric

Cal., San Francisco
Union Iron Works Co., 311 California Ave.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Converters, Steel

Ill., Harvey
Whiting Foundry & Equipment Co.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
*Standard Tank Co., 15 Park Row
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Youngstown
Pollock Co., W. B.
Pa., Sharon
Petroleum Iron Works Co.

Conveying Machinery

Ill., Aurora
Barber-Greene Co.
Stephens-Adamson Mfg. Co.
Ill., Chicago
American Conveyor Co., 6611 Drexel Ave.
Brown Portable Conveying Machinery Co., 12 S. La Salle St.
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Dull Co., Raymond W., 111 W. Washington St.
Link-Belt Co., W. 39th and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ill., Decatur
Union Iron Works
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Tool & Machine Co., 10 High St.
Lamson Co., 100 Boylston St.
Sturtevant Mill Co., Harrison Sq.
Mich., Bay City
Bay City Foundry & Machine Co.
Garland Co., M.
Mich., Detroit
American Blower Co.
Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Hepworth Co., S. S., 2 Rector St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cincinnati
Alvey-Ferguson Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Philadelphia Tramrail Co., Front and Tusculum Sts.
Specialty Engineering Co., Allegheny and Trenton Aves.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Conveying Systems

Md., Baltimore
Bartlett, Hayward Co.
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveying Systems, Pneumatic

Mich., Saginaw
Allington & Curtis Mfg. Co., 402 Holden St.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Conveyors, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Apron, Power

Mo., St. Louis
Alvey Mfg. Co.

Conveyors, Bag

Ill., Aurora
Barber-Greene Co.
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Belt

Del., Wilmington
Walker & Elliot, Inc.
Ill., Aurora
Barber-Greene Co.
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
National Leather Belting Co., Inc., 342 E. 38th St.
Robbins Conveying Belt Co., Park Row Bldg.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Haslett Spiral Chute Co., 1937 W. Tioga St.

Conveyors, Bucket

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead Morrison Mfg. Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Chain-Belt Co., 734 Park St.

Conveyors, Chain

Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1822 N. Kostner Ave.
Mass., Boston
Lamson Co., 100 Boylston.
Mo., St. Louis
Alvey Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Coal (*see Conveyors, Ore*)

Conveyors, Cottonseed Oil Machinery

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Flight

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Ohio, Columbus
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Gravity

Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Mo., St. Louis
Alvey Machinery Co.
Ohio, Columbus
Jeffrey Machine Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Ellwood City
Mathews Gravity Carrier Co.
Pa., Philadelphia
Haslett Spiral Chute Co., 1937 W. Tioga St.

Conveyors, Link Belt

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Ore

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1822 N. Kostner Ave.
Mass., East Boston
Mead-Morrison Mfg. Co.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Conveyors, Pan (*see Conveyors, Bucket Apron*)

Conveyors, Portable

Ill., Chicago
Brown Portable Conveying Machinery Co., 10 S. La Salle St.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Columbus
Jeffrey Mfg. Co.

Conveyors, Power Driven Roller

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Screw

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Chain-Belt Co., 734 Park St.

Conveyors, Scraper

Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Slat

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveyors, Special

Mass., Boston
Lamson Co., 100 Boylston St.
Mo., St. Louis
Alvey Mfg. Co.

Conveyors, Sweep-off

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Traveling Pan

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Tray (Automatic)

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Vibrating

N. Y., New York City
Hepworth Co., S. S., 2 Rector St.

Cookers (*see Digestors*)

Coolers, Acid

Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Blair Campbell & McLean, Inc., Colonial Trust Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Coolers, Air

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
Worthington Pump & Machinery Corp.

Coolers, Ammonia (*see Refrigerating Machinery*)

Coolers, Brine (*see Refrigerating Machinery*)

Coolers, Charcoal

Mich., Muskegon
Muskegon Boiler Works, Eighth St.

Coolers, Generator

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
N. Y., New York City
Carrier Air Conditioning Co., 39 Cortlandt St.

Coolers, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Coolers, Oil

N. Y., New York City
American Spray Co., 26 Cortlandt St.
Pa., Carbondale
Carbondale Machine Co.

Coolers, Roasted Oars

Colo., Denver
Colorado Iron Works Co.

Coolers, Rotary

Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Coolers, Tubular

Conn., Hartford
Whitlock Coil Pipe Co.

Coolers, Water

N. Y., New York City
Cordley & Hayes, 7 Leonard St.
Ohio, Akron
U. S. Stoneware Co.

Cooling Ponds

N. Y., Buffalo
Carrier Air Conditioning Co., 490 Broadway

Cooling Ponds, Spray

N. Y., New York City
American Spray Co., 26 Cortlandt St.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Cooling Systems

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Spray Engineering Co., 93 Federal St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Sowers Mfg. Co.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Carrier Air Conditioning of America, 490 Broadway
Carrier Engineering Corporation, 39 Cortlandt St.
De La Vergne Machine Co.
General Ceramics Co., 50 Church St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Sanborn Evaporator Co., 50 Broad St.
Sidio Co. of America, 37 Murray St.
Van Emden Co., H., 145 W. 45th St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Cooperage Stock

N. Y., Niagara Falls
International Cooperage Co., Inc., Erie Ave. and 9th St.

Coping Machines

Ill., Moline
Williams, White & Co.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Hamilton
Long & Allstatter Co.

Copper Equipment

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Hungerford Brass & Copper Co., U. T. 84 La Fayette St.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Cord, Waterproof

N. Y., Auburn
Columbian Rope Co., 3050-75 Genesee Ave.
Ohio, Akron
Goodrich Co., B. F.
R. I., Providence
Davol Rubber Co.

Cores, Armature and Magnet

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Cores, Electric Furnace

N. Y., Niagara Falls
Carborundum Co.

Cores, Electric Furnaces, Alundum

Mass., Worcester
Norton Co., New Bond St.

Cork Board

Minn., Winona
Union Fibre Co.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Corkboard, Insulation, Nonpareil

Pa., Pittsburgh
Armstrong Cork & Insulating Co., 122 24th St.

Cork Machinery

Mich., Saginaw
Werner & Pfleiderer, Inc.
Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Corks, Bottle Crown

Md., Baltimore
Crown Cork & Seal Co.
N. Y., Brooklyn
Mundet & Son, L., King and Ferris St.
N. Y., New York City
Farrell, W. J., 115 Maiden Lane

Corks, Brewers and Bottlers

Conn., Norwich
Thames Cork Co.
Md., Baltimore
Crown Cork & Seal Co.
Pa., Pittsburgh
Armstrong Cork Co., 23d and Allegheny Ave.

Corks, Chemists

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Pa., Pittsburgh
Armstrong Cork Co., 23d and Alleghany Ave.
Pa., Rochester
Fry Co., H. C.

Corks, Rubber

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
N. Y. Belting & Packing Co., 91 Chambers St.
Ohio, Cleveland
Cleveland Rubber Co., Lisbon Road
Pa., Philadelphia
Whitall-Tatum & Co., 410 Race St.
*Thomas Co., Arthur H., 238 W. Washington Sq.
R. I., Providence
Davol Rubber Co.

Corkwood

N. Y., New York City
Farrell, W. J., 115 Maiden Lane

Corundum Wheels (*see Grinding Wheels*)

Cottonseed Oil Mill Machinery

Ala., Birmingham
Continental Gin Co.
Del., Wilmington
Pusey & Jones Co.
Ga., Atlanta
Atlanta Utility Works
Ill., Chicago
Kaestner & Hecht Co.
Link-Belt Co., W. 39th St. and Stewart Ave.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Dayton
Platt Iron Works Co.
Texas, Dallas
Murray Co.

Cottrell Installations, Electrical Equipment for Use With

N. Y., New York City
Research Corporation, 63 Wall St.

Counterbores

N. Y., New York City
Pratt & Whitney Co., 111 Broadway
Ohio, Cleveland
Cleveland Twist Drill Co.

Counters

N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

Counters, Indication

Conn., Waterbury
Bristol Co.
Mass., Athol
Starrett Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester
Knowlton Co., M. D.

Couplings, Brass

Ill., Chicago
Crane Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Wilfert Co., John, 259 Broadway
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Pittsburgh
National Tube Co.

Couplings, Flexible

Conn., Waterbury
American Metal Hose Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
National Hose Coupling Co., People's Gas Bldg.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Pittsburgh
Jones & Laughlin Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Couplings, Hose

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ind., Connersville
Connersville Blower Co.
Mass., Boston
Claflin Co., C. A., 161 High St.
N. Y., Brooklyn
Bliss Co., E. W., 19 John St.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Wilfert Co., John, 259 Broadway

Couplings, Shaft

Ill., Aurora
Stephens-Adamson Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Fairbanks-Morse & Co., 900 S. Wabash Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Coverings, Asbestos

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. Y., New York City
Johns-Manville Co., Madison Ave. and 41st St.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Franklin
Franklin Mfg. Co.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Coverings, Cork

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Coverings, High Pressure

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Covers, Assay Clay

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Assay Sand

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Glass

N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.

Covers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Stoneware

N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
Ohio, Akron
U. S. Stoneware Co.

Covers, Tower, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.

Cranes, Bracket

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Bucket Handling

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ill., Harvey
Whiting Foundry Equipment Co.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Cleveland
Brown Hoisting Machinery Co.
Wellman, Seaver, Morgan Co.

Cranes, Gantry

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Grab Bucket

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Northern Engineering Works

Cranes, Handpower Traveling

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Hand Traveling

Mich., Detroit
Northern Engineering Works

Cranes, Jib

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Locomotive

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Bay City
Industrial Works
Ohio, Cleveland
Brown Hoisting Machinery Co.

Cranes, Pillar

Ill., Harvey
Whiting Foundry Equipment Co.

Cranes, Special

Ohio, Cleveland
Wellman-Seaver-Morgan Co.

Cranes, Transfer

Ill., Harvey
Whiting Foundry Equipment Co.

Creosoting Machinery

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.

Crucible, Clay Lined

Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucible Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Crucibles, Acid Proof

N. Y., New York City
Duriron Castings Co., 90 West St.

Crucibles, Alundum

Mass., Worcester
Norton Co., New Bond St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Black Lead (*see Crucibles, Graphite*)

Crucibles, Carbon

Ohio, Cleveland
National Carbon Co., Madison and Highland Aves.

Crucibles, Clay

Colo., Denver
Denver Fire Clay Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Ohio, Cleveland
National Carbon Co.
Utah, Salt Lake City
Utah Fire Clay Co.

Crucibles, Copper

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Fused Silica

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Gooch

Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Crucibles, Graphite

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
Conn., Bridgeport
Bridgeport Crucible Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Jersey City
Dixon Crucible Co., Joseph
Gautier & Co., J. H.
N. Y., Niagara Falls
International Acheson Graphite Co.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
*Goeble & Co., J., 129 Maiden Lane
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Ross-Tacony Crucible Co., Robbins and Mulner Sts.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Carbondale
*Griebel Instrument Co.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Graphite Brazing

N. J., Jersey City
Dixon Crucible Co., Joseph

Crucibles, Metal Melting

Conn., Bridgeport
Bridgeport Crucible Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Trenton
Bartley Crucible Co., J.
N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Ross-Tacony Crucible Co., Robbins and Milner, Tacony
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Platinum

Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Newark
American Platinum Works, 225 New Jersey Railroad Ave.
Baker & Co., Murray and Austin Sts.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Porcelain

Colo., Golden
Herold China & Pottery Co.
Mass., Cambridge
Guernsey Earthware Co.
N. Y., Rochester
Will Corporation
Ohio, Columbus
Laboratory Supply Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Crucibles, Porous, Filtering

Pa., Pittsburgh
Crucible Steel Co. of America

Crucibles, Rose

Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Crucibles, Sand

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Goeble & Co., J., 129 Maiden Lane

Crucibles, Sheet Iron

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crucibles, Sheet Nickel

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crushers, Assayers

Cal., San Francisco
*Braun-Knecht-Heimann Co., 576 Mission St.
Colo., Denver
Colorado Iron Works Co.
Denver Fire Clay Co.
Mine & Smelter Supply Co.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Pittsburgh
Scientific Materials Co.

Crushers, Cinder

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Crushers, Coal

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead-Morrison Mfg. Co.
N. Y., Brooklyn
Kent Mill Co., 10 Rapelyea St.
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
K. B. Pulverizer Co., Inc., 86 Worth St.
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.

Crushers, Coal—*cont.*

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Coke (*see Crushers, Coal*)

Crushers, Hammer

Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Crushers, Hinged Hammer

Mass., Boston
Sturtevant Mill Co.

Crushers, Jaw

Ill., Chicago Heights
Chalmers & Williams, Inc.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
*K-B. Pulverizer Co., Inc., 70 Worth St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Co.

Crushers, Laboratory

Cal., San Francisco
*Braun-Knecht-Heimann Co., 576 Mission St.
Ill., Chicago
Link-Belt Co.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbé, Paul O., 50 Church St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crushers, Ore and Rock (*see Crushers, Coal*)

Crushers, Phosphate Rock (*see Crushers, Coal*)

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Rock (*see Crushers, Coal*)

Crushers, Roll

Mass., Boston
Sturtevant Mill Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Rotary

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Crushers, Single Roll

Ill., Chicago
Link-Belt Co.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Slive

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Wood Pulp

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
N. Y., Carthage
Carthage Machine Co.

Crushing Machinery (*see Crushers, Specific Headings*)

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Crystal Washing Equipment
N. Y., New York City
Dorr Co., 101 Park Ave.

Crystallizers
Del., Wilmington
Posey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., J. P.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Dover Boiler Works, 50 Church St.
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Culture Propagating Apparatus
Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Cupel Machines
Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.

Cupels, Clay
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupels, Sand
Colo., Denver
Denver Fire Clay Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupola Charging Machines
Ill., Harvey
Whiting Foundry Equipment Co.

Cupolas
Ill., Harvey
Whiting Foundry Equipment Co.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Worthington Pump & Machinery Corporation, 115 Broadway

Cups, Alcohol
Ohio, Cambridge
Cambridge Glass Co

Cups, Benzine
Ohio, Cambridg
Cambridge Glass Co

Cups, Leather
N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Cups, Oil and Grease
N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Cups, Paper
Mass., Boston
American Water Supply Co., 251 Causeway St.

Cups, Porous
Colo., Golden
Herold China & Pottery Co.
Mass., Worcester
Norton Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Cushions
Ohio, Akron
Goodrich Co., B. F.
Ohio, Youngstown
Republic Rubber Co.
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co
R. I., Providence
Davol Rubber Co

De-ammoniators

Mich., Detroit
Steere Engineering Co., Woodward Ave.

Decolorizers, Glass

Ind., Terre Haute
Turner Brothers Co.

Decolorizers, Seleno

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Defecators *(see Sugar Machinery)*

Defecators, Sugar

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Degreasing Plants

Mass., Cambridge
Little Co., Arthur D., Charles River Rd.
Mass., Fall River
Scott & Co., Ernest
Mo., St. Louis
Brecht Co.
N. Y., New York City
Garrigue & Co., Wm., 154 Nassau St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Kutztown Foundry & Machine Co., 1421 Chestnut St.

Dehumidifying Apparatus

Ill., Chicago
Drying Systems, Inc., 320 N. Michigan Ave.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Delineascopes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.

Demijohns

Cal., San Francisco
Illinois-Pacific Glass Co., 15th and Folsom Ave.
Ill., Alton
Illinois Glass Co.
N. Y., New York City
White, Fred C., 241 Water St.
Ohio, Springfield
Ridgely Trimmer Co.

Denitrators

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Duriron Castings Co., 90 West St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 57 E. 41st St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Deodorizers

Ill., Chicago
Allbright-Nell Co., 5223 Southwestern Blvd.
N. Y., New York City
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 411 5th Ave.
Pa., Erie
American Sterilizer Co.

Derricks

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Mich., Detroit
Northern Engineering Works
Minn., Minneapolis
Minneapolis Steel & Machinery Co.
N. Y., Niagara Falls
Dobbie Foundry & Machine Co.

Desiccator, Atwater's

N. Y., Rochester
Will Corporation

Desiccators

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Carbondale
Griebel Instrument Co.

Destructors, Refuse

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Ill., Kewanee
Kewanee Boiler Co.
N. Y., New York City
Griscom-Russell Co., 80 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Pittsburgh
Ruud Mfg. Co.
Wis., Milwaukee
Kerner Incinerator Co.

Detarrers, Electrical

Mich., Detroit
Steere Engineering Co., Woodward Ave.

Detinning

N. Y., New York City
Metal & Thermit Corp., 120 Broadway
Pa., Pittsburgh
Republic Chemical Co., Neville Island

Devulcanizers

Conn., Ansonia
Farrell Foundry & Machine Co.
Ohio, Akron
Biggs Boiler Works Co.

Dewatering Apparatus

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., New York City
Dorr Co., 101 Park Ave.
Utah, Salt Lake City
United Filters Corp.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dials

Conn., Waterbury
Waterbury Clock Co.
Del., Wilmington
Du Pont de Nemours Co., E. I.

Dialyzers

N. Y., Rochester
Will Corporation

Diamonds, Industrial

N. Y., New York City
*Diamond Drill Carbon Co., 53-63 Park Row.

Diaphragms, Acid Proof

Mass., Boston
Boston Belting Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Ohio, Akron
Goodrich Co., B. L.
Pa., Philadelphia
Omaha City Rubber Co.

Diaphragms, Acid Proof, Electro-Filtros

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Die Castings

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Dies, Clay

Ohio, Bucyrus
American Clay Machinery Co.

Dies, Soap

N. Y., Brooklyn
Houchin-Aiken Co.
N. Y., Buffalo
Sowers Mfg. Co.

Diffusers

N. Y., New York City
International Process Co., 5 Beekman St.
N. Y., Rochester
General Filtration Co., Inc.
N. Y., Schenectady
General Electric Co.

Digesters

Del., Wilmington
Posey & Jones Co.
England, Deepfields, nr. Bilston, Staffs.
Cannon Iron Foundries, Ltd.
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., The
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Allbright-Nell Co.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Wickes Boiler Co.
N. J., Burlington
Stuart & Peterson Co.
United States Cast Iron Pipe & Foundry Co.
N. J., Carteret
Wheeler Condenser and Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 491 Broadway
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1372 Clinton St.
Zaremba Co., Morgan Bldg.

Digesters—*cont.*

N. Y., New York City
American Process Co., 68 William St.
Dover Boiler Works, 50 Church St.
Eimer & Amend, 205-211 3d Ave.
International Process Co., 5 Beekman St.
Roos Sons, August, 429 E. 91st St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Allentown
Traylor Eng. & Mfg. Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Digesters, Copper

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 491 Broadway
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1372 Clinton St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Cincinnati
American Copper & Brass Works

Digesters, Glass Enameled

N. Y., Rochester
Pfaudler Co.

Digesters, Lead Lined

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Digesters, Welded Steel

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Digging Machinery

Ill., Chicago
Austin Mfg. Co., 910 S. Michigan Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Hayward Co., 50 Church St.
Ohio, Marion
Marion Steam Shovel Co.

Dilators

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Dimethylanilin Plants

Mass., Cambridge
Little Co., Arthur B., Charles River Rd.
N. Y., Buffalo
Buffalo Foundry & Forge Co.
Devine Co., J. P.

Dippers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Direct Process for Ammonium Sulphate

Md., Baltimore
Bartlett, Hayward Co.
Pa., Pittsburgh
Koppers Co., H.

Discs, Alundum, for Filtering

Mass., Worcester
Norton Co., New Bond St.

Discs, Graphite

N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.

Discs, for Valves

Mass., Boston
Boston Belting Co.
N. Y., New York City
Jenkins Brothers, 80 White St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.

Dish Covers, Petri

Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Dishes, Alundum

Mass., Worcester
Norton Co., New Bond St.

Dishes, Crystallizing, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
N. Y., Rochester
Will Corporation
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Dishes, Earthenware Cooking

Ill., Monmouth
Western Stoneware Co.
N. J., Flemington
Fulper Pottery Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio. East Akron
Knight, Maurice A.
Ohio, Cambridge
Guernsey Earthenware Co.

Dishes, Evaporating

Col., Golden
Herold China & Pottery Co.
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Burlington
Stuart & Peterson Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate Ltd., The, 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Will Corporation
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Malvern
Bishop & Co. Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.
Pa., Pittsburgh
MacBeth Evans Glass Co.
Scientific Materials Co., 711 Forbes St.
Pa., Rochester
Fry Glass Co., H. C.

Dishes, Flat Bottom

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Form, Classen

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, for Milk, Sugar, Water and Wine Analysis

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Petri

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Palo Co., 90 Maiden Lane
N. Y., Rochester
Will Corporation
Ohio, Cambridge
Cambridge Glass Co.
Ohio, East Akron
Knight, Maurice A.

Dishes, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., 54 Austin Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Dishes, Porcelain (*see Porcelain Ware*)

Dishes, Stender

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Disinfectors

Ohio, Cambridge
Cambridge Glass Co.
N. Y., New York City
Hospital Supply Co., 53 5th Ave.
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 12 E. 42d St.

Disintegrating Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ind., Aurora
Stedmans Foundry & Machine Works
Mass., Boston
Holmes & Blanchard Co., 31 State St.

Disintegrators

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros., Impact Pulverizer Co., 1318 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Houchin-Aiken Co.
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
K. B. Pulverizer Co., 86 Worth St.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Disks, Perforated

N. Y., Rochester
Will Corporation

Dissociators

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Dissolvers

Md., Baltimore
Bartlett, Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
General Ceramics Co., 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Dissolvers, Blanc Fixe

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, China Clay

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Glue

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Dissolvers, Salts

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Satin White

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Distilling Apparatus (*see also Stills*)

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
*Central Scientific Co., 460 E. Ohio St.
*Schaar & Co., 1025 S. State St.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett, Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus, Walter E., 88 Broad St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.

Distilling Apparatus—*cont.*

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Bernard & Co., F. J., 70 Murray St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Cincinnati
Vulcan Copper Works Co., 122 Sycamore St.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.
Oat & Sons, Jos., 230 Quarry St.
Ott Co., George F., 213 Buttonwood St.
Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.
Wis., Milwaukee
Vilter Mfg. Co.

Distilling Equipment (*see Stills*)

Distributors, for Loading Tanks

Colo., Denver
Colorado Iron Works Co.

Diving Apparatus

Ill., Chicago
*Elmer, H. N., 53 W. Jackson Blvd.

Doors, Discharge

Colo., Denver
Colorado Iron Works Co.

Doors, Oven

Ill., Batavia
Sperry & Co., D. R.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.

Douches

Ohio, Cambridge
Cambridge Glass Co.

Draft Apparatus (*see Blowers and Fans*)

Draft Equipment, Mechanical

Mich., Kalamazoo
Clarage Fan Co.

Drafting Room Supplies

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Drafting Tables

Mich., Kewanee
Kewanee Mfg. Co.

Drain Plugs, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Drains

Ala., Birmingham
American Cast Iron Pipe Co.
Ill., Chicago
Illinois Malleable Iron Co.
Mo., St. Louis
Nelson Mfg. Co., 10th and Chestnut Sts.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
Mott Iron Works, 118 5th Ave.
Warren Foundry & Machine Co., 11 Broadway
Pa., Pittsburgh
Standard Sanitary Mfg. Co.

Drawing Instruments

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Dredges, Hydraulic

N. Y., Baldwinsville
Morris Machine Works

Dredging Machinery

Cal., San Francisco
Union Iron Works
Mich., Saginaw
Wickes Bros., 512 Water St.
N. Y., Baldwinsville
Morris Machine Works
N. Y., New York City
Hayward Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Marion
Marion Steam Shovel Co.
Wis., South Milwaukee
Bucyrus Co.
Wis., Superior
Superior Iron Works Co.

Dressers, Emery Wheel

Ill., Chicago
Chicago Wheel & Mfg. Co., 1101 W. Monroe St.
Standard Screen Co., 79-85 Madison Ave., E.
Ind., Indianapolis
Atkins & Co.
Mass., Worcester
Worcester Pressed Steel Co.
N. Y., New York City
Acme Diamond Tool Co., 56 Liberty St.
*Diamond Drill Carbon Co., 53-63 Park Row
N. Y., Niagara Falls
Carborundum Co.

Drills, Coal

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Sullivan Machinery Co., People's Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Drills, Core

Ill., Chicago
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., People's Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Drills, Diamond

Ill., Aurora
American Well Works
Ill., Chicago
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., Peoples' Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Drills, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.
Md., Baltimore
Black & Decker Mfg. Co., 105-115 S. Calvert St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Drills, Hammer—Rock Excavation

Ill., Chicago
Sullivan Machinery Co., 122 S. Michigan Ave.

Drills, High Speed (*see Drills, Twist*)

Drills, Ore (*see Drills, Coal*)

Drills, Percussion

N. Y., New York City
Diamond Expansion Bolt Co., 90 West St. corner Cedar

Drills, Pneumatic

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Minn., St. Paul
Helwig Mfg. Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Cleveland
Cleveland Pneumatic Tool Co., 6410 Hawthorne Ave.

Drills, Portable (Electric)

Ill., Chicago
Electro Magnetic Tool Co., 2902 Canoll Ave.
Ky., Louisville
Clark Electric Co., Jas., Jr.
Mass., West Newton
American Electric Tool Co.
N. Y., New York City
Star Expansion Bolt Co., 147-149 Cedar St.
Ohio, Cincinnati
Neil & Smith Electric Tool Co., 120-122 E. 6th St.
Standard Electric Tool Co.
Ohio, Cleveland
Van Dorn Electric Tool Co.

Drills, Rock (*see Drills, Coal*)

Drills, Stone (*see Drills, Coal*)

Drills, Twist

Mass., Athol
Union Twist Drill Co.
Mass., New Bedford
Morse Twist Drill & Machine Co.
Mich., Detroit
Detroit Twist Drill Co., 634-646 W. Fort St.
National Twist Drill & Tool Co.
N. Y., New York City
Pratt & Whitney Co., 111 Broadway
N. Y., Syracuse
Syracuse Twist Drill Co.
Ohio, Akron
Whitman & Barnes Co.
Ohio, Cleveland
Cleveland Twist Drill Co.
Standard Tool Co.
Ohio, Toledo
Toledo Drill & Tool Co.

Drivers, Bolt

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.

Drives

Ill., Aurora
Stephens-Adamson Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.

Droppers

Ohio, Akron
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.

Drug Mill Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mich., Detroit
Meade & Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Ross & Son Co., Chas.
N. Y., Buffalo
Cox Process Co.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
N. Y., Poughkeepsie
Lane Bros. & Co.
N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Cincinnati
Day & Co., J. H.
Pa., Philadelphia
Enterprise Mfg. Co.

Drums, Copper

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Gerdes & Co., Inc., 50 Church St.
Ott Co., George F., 213 Buttonwood St.

Drums, Steel

Ill., Chicago
American Spiral Pipe Works, 14th St. and S. Cicero Ave.
Toledo Steel Barrel Co., 134 S. La Salle St.
Mich., Detroit
Detroit Range Boiler Co., 625 24th St.
Welded Steel Barrel Corp.
Mo., Kansas City
Columbian Steel Tank Co.
N. J., Jersey City
Corcoran, Inc., A. J.
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.
N. Y., New York City
American Can Co., 120 Broadway
*Standard Tank Co., 15 Park Row
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Ohio, Alliance
Reeves Bros. Co.
Ohio, Cleveland
Cleveland Steel Barrel Co.
Ohio, Defiance
American Steel Package Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Pittsburgh
Scaife & Sons Co., First Nat. Bank Bldg.
Pa., Sharon
Petroleum Iron Works Co.
Wis., Milwaukee
Pressed Steel Tank Co.

Drums, Steel, Galvanized

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, Glass Enameled

N. Y., New York City
Mott Co., John L., 118 Fifth Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Drums, Steel, Tin Lined

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, with Removable Heads

Mich., Detroit
Detroit Range Boiler Co.
N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drum Washing Machines

Ill., Batavia
Sperry & Co., D. R.

Dry Kilns (*see Kilns, Dry*)

Dry Blast Plants

N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Dryers, Air Conditioning

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Air Recirculation

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Air Steam-Heated

N. Y., New York City
Gordon Dryer Corporation, 39 Cortlandt St.

Dryers, Atmospheric

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
American Process Co., 68 William St.
Gordon Engineering Corp., 39 Cortlandt St.
Kalbperry Co., 31 Union Square, W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Philadelphia Drying Machinery Co.
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Automatic

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Centrifugal (*see Centrifugals*)

Dryers, Coal

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
American Process Co., 68-70 William St.
Ruggles-Coles Engineering Co., 50 Church St.
Ohio, Alliance
Reeves Bros. Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Dryers, Compartment

Ill., Chicago
Drying Systems, Inc., 32 Michigan Ave.
N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.
Kalbperry Corporation, 31 Union Square, W.

Dryers, Continuous Belt

Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Dryers, Direct Heat

N. Y., New York City
American Process Co., 68-70 William St.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Md., Baltimore
Meade & Co., Richard K., Law Bldg.
Mass., Fall River
Scott & Co., Ernest
N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.
Ruggles-Coles Engineering Co., 50 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Coatesville
Coatesville Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Drum

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Redfield, Robert S., 327 S. La Salle St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Drum, Non-Vacuum

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.

Dryers, Drum, Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.

Dryers, Exhaust Steam

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Fireproof

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Fertilizer

Md., Baltimore
Meade & Co., Richard K., Law Bldg.
N. Y., New York City
American Process Co., 68-70 William St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co J P.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, for Asbestos Board

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Binders' Board

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Bricks

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Cartridges

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Ceramic Ware

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Chemicals

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Drain Pipes

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Electric Insulators

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Fabrics

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Flue Tile

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Gas Mantles

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Glue

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Leather

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Leather Board

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Lithopone

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Lumber

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Match Sticks

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Paint Pigment

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Paper

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Pipe Covering

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Porcelain

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Raw Stock

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, for Soap

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Indirect Heat

N. Y., New York City
American Process Co., 68-70 William St.
Gordon Dryer Corporation, 39 Cortlandt St.
Kalbperry Corporation, 31 Union Square, W.
Ruggles-Coles Engineering Co., 50 Church St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Laboratory

N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Liquid

N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.
Ohio, Akron
Biggs Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Live Steam

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Loop

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Low Temperature

N. Y., New York City
Gordon Dryer Corporation, 39 Cortlandt St.

Dryers, Ore

Cal., San Francisco
Union Iron Works
Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Chalmers & Williams, Inc.
N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.
N. Y., New York City
Abbé Engineering Co., 220 Broadway
American Process Co., 68 William St.
Ruggles-Coles Engineering Co., 50 Church St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Allentown
Traylor Engineering & Mfg. Co.

Dryers, Patent Imperial

Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Dryers, Pharmaceutical

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Phosphate Rock (*see Dryers, Fertilizers*)

Dryers, Progressive

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Rotary

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mass., South Boston
Hersey Mfg. Co.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
American Process Co., 60 William St.
Kalbperry Corporation, 31 Union Square, W.
Machinery Utilities Co., Inc., 501 5th Ave.

Dryers, Rotary—*cont.*

Ruggles-Coles Engineering Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway

Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Ohio, Akron
Biggs Boiler Works Co.

Ohio, Bucyrus
American Clay Machinery Co.

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Cummer & Son Co., F. D., 413, The Arcade

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Wis., Manitowoc
Manitowoc Boiler Works

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Rotary—Non-Vacuum

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.

Dryers, Rotary, Phosphate Rock

Ill., Harvey
Whiting Foundry Equipment Co.

Dryers, Rotary, Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1366 Clinton St.

Ohio, Akron
Biggs Boiler Works Co.

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf

Ill., Chicago
Drying Systems, Inc., 320 N. Michigan Ave.

Mass., Fall River
Scott & Co., Ernest

N. J., East Carteret
Wheeler Condenser & Eng. Co.

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.
Kalbperry Corporation, 31 Union Square, W.

Ohio, Akron
Biggs Boiler Works Co.

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf, Laboratory Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Dryers, Shelf, Vacuum

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Steam Jacketed

Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.

Mass., Fall River
Scott & Co., Ernest

N. Y., Buffalo
Buffalo Foundry & Machine Co.

N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.

Ohio, Akron
Biggs Boiler Works Co.

Dryers, Steel

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Stone

N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.

Dryers, Textile

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.

Mass., Boston
Sturtevant Co., B. F., Hyde Park

Mich., Detroit
American Blower Co.

N. J., Jersey City
Seydel Mfg. Co.

N. Y., New York City
American Process Co., 70 William St.
Carrier Air Conditioning Co., 39 Cortlandt St.
Gordon Dryer Corporation, 39 Cortlandt St.

Pa., Philadelphia
Philadelphia Drying Machine Co., Stokley St.
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Tray

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St., and Tabor Road

Dryers, Truck

Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Tunnel

N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.
Kalbperry Corporation, 31 Union Square, W.
Pa., Philadelphia
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road

Dryers, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Md., Baltimore
Meade & Co., Richard K., Law Bldg.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 135 Ogden Ave.
N. Y., Brooklyn
Hubbard's Sons, Norman, 265 Water St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co., 1300 N. Niagara St.
N. Y., New York City
American Process Co., 68 William St.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood St.
Stokes Machine Co., F. J.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.

Dryers, Vacuum Chamber

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.

Dryers, Vat

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Dryers, Vibrating

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Drying Apparatus, Vacuum

N. Y., Buffalo
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.

Drying Machines, Blue Prints

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Drying Plants

Ind., Indianapolis
Hunter Dry Kiln Co., The, 26th and Cornell Ave.
Mass., Fall River
Scott & Co., Ernest
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
Kalbperry Corporation, 31 Union, Square, W.
Machinery Utilities Co., 501 5th Ave.
N. Y., Rochester
Will Corporation
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
Philadelphia Drying Machinery Co. 6721 Germantown Rd.
Stokes Machine Co., F. J.

Duck, Paper Felt

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Ductility Machines

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Dumbwaiters

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Ohio, Cincinnati
Ready Co., H. J.
Warner Elevator Mfg. Co.

Dumbwaiters, Electric

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.

Dumpers, Coal

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Brown Hoisting Machinery Co.

Dumpers, Ore *(see Dumpers, Coal)*

Duriron, Acid Proof

N. Y., New York City
Duriron Castings Co., 90 West St.

Dust and Smoke Determinators

Ill., Chicago
Sargent Steam Meter Co., 2835 Armitage Ave.

Dust Chambers and Flues

Colo., Denver
Colorado Iron Works Co.

Dust Collecting Systems

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Stroud & Co., E. H., 928 Fullerton Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
Mass., Boston
Sturtevant & Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Beach Russ Co., 220 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Ingersoll-Rand Co., 11 Broadway
Kalbperry Corporation, 31 Union Square, W.
Van Emden Co., H., 145 W. 45th St.
Pa., Philadelphia
Braemer Air Conditioning Corporation, LaFayette Bldg.

Dust Collectors, Cloth

Ill., Chicago
Clark Dust Collecting Co., 1116 Fisher Bldg.
Stroud & Co., E. H., 928 Fullerton Ave.

Dusting Machinery

Mass., Pittsfield
Jones & Sons Co., E. D., 25 Depot St.

Dyeing Machinery

Mass., Adams
Allen Iron Works
Mass., Boston
Leigh & Butler, 232 Summer St.
Riley Co., C. E., 65 Franklin St.
Mass., Holyoke
Holyoke Machine Co.
Mass., Orange
Hunt Machine Co.
N. J., Paterson
Watson Machine Co., 74 R. R. Ave.
N. Y., Albany
Townsend Furnace & Machine Shop Co.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
American Textile Special Machinery Co., 109 5th Ave.
N. Y., Troy
Tolhurst Machine Works
Ohio, Cincinnati
American Laundry Machinery Co.
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Philadelphia Textile Machinery Co., 6th St. and Tabor Road
Pa., Pittston
Delahunty Dyeing Machine Co.
R. I., Providence
Textile Finishing Machinery Co.

Dyestuff Plants

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Mass., Cambridge
Little Co., Inc., Arthur D.
Mass., Fall River
Scott & Co., Ernest
Md., Baltimore
Bartlett, Hayward Co.
N. Y., Buffalo
Buffalo Forge & Foundry Co.
Devine Co., J. P.
Farrar & Trefts
N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Pa., South Bethlehem
Bethlehem Steel Co.

Dynamite Machinery (*see Explosive Plants*)

Dynamite Sheel Machines

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Dynamometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. J., Jersey City
Standard Motor Construction Co., 172-180 Whiton St.
N. Y., New York City
Chatillon & Sons, John, 85-93 Cliff St.

Dynamos (*see also Generators*)

Ill., Chicago
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Western Electric Co., 500 S. Clinton Ave.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Earthenware, Sanitary

N. J., Perth Amboy
Fords Porcelain Works, P. O. Box 407

Efficiency Kits

Mich., Detroit
Precision Instrument Co., Fort & Wayne Sts.

Ejectors, Acid

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Worthington Pump and Machinery Corp., Broadway and Cedar St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Ejectors, Non-Acid Liquids

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Ejectors, Syphon

Ill., Chicago
Chicago Pump Co., 904-10 W. Lake St.
Economy Pumping Machinery Co., 116-118 N. Carpenter St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Worthington Pump & Machinery Co., 113 Broadway
Ohio, Cincinnati
Lunkenheimer Co.

Elbows, Brass

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Mass., Boston
Walworth Mfg. Co.
Mich., Grand Rapids
Wolverine Brass Works
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Columbus
Columbus Brass Co.
Ohio, Mansfield
Ohio Brass Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.

Elbows, Iron, Cast and Malleable

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Mass., Boston
Walworth Mfg. Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., Dunkirk
United States Radiator Corp.
N. Y., New York City
Central Foundry Co., 90 West St.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.
National Valve Co.

Elbows, Rubber

N. J., Trenton
Luzerne Rubber Co.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Electric Heating Apparatus (*see Heaters, Electric, and Heaters, Electric, Laboratory*)

Electric Hot Plates

N. J., Newark
Electric Heating Apparatus Co., 123-25 Sussex Ave.

Electric Hot Plates, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Electrical Precipitation

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrical Measuring Appliances

N. J., Newark
Weston Electrical Instrument Co., Waverly Park

Electrical Measuring Instruments

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 54 W. Kinzie St.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.
N. Y., New York City
Pignolet, Louis M., 78 Cortlandt St.
Western Electric Co.
N. Y., Rochester
Taylor Instrument Cos.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Leeds & Northrop Co., 4907 Stenton Ave.
Queen-Gray Co., 616-620 Chestnut St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrical Testing Apparatus

(*see Electric Measuring Apparatus*)

Electro Analysis Apparatus

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Electrochemical Equipment

Colo., Denver
Colorado Iron Works Co.
Dorr Co., Cooper Bldg.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Me., Portland
Electron Chemical Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott Co., Ernest
Mass., Springfield
Green Co., Samuel M.
N. J., Elizabeth
Moore & Sons Corporation, Samuel L.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Bldg.
N. Y., New York City
Dorr Co., 17 Battery Pl.
Electrolytic Engineering Corporation, 501 Fifth Ave.
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
Warner Chemical Co., 52 Vanderbilt Ave.

Electrodes, Carbon

N. Y., Niagara Falls
Acheson Graphite Co.
N. Y., New York City
Leavitt & Co., C. W., 36 Church St.
Ohio, Cleveland
National Carbon Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Electrodes, Graphite

N. Y., Niagara Falls
Acheson Graphite Co.

Electrodes, Platinum

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., Murray and Austin Sts.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Electro-Dynamometers

N. J., Newark
Weston Electrical Instrument Co.
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Electrolytic Conductivity Apparatus

Pa., Philadelphia
Leeds & Northrup Co., 4901 Stenton Ave.

Electrolytic Refining

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrolytic Oxygen and Hydrogen Equipment

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

Electrolytical Apparatus

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Electro-Magnets (*see Magnets, Electro*)

Electrometers (Compton Quadrant)

N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Electroscopes (Ionization)

N. Y., New York City
Standard Scientific Co., 147 Waverly Pl.

Elevating Machinery (*see also Elevators*)

Colo., Denver
Colorado Iron Works Co.
Ill., Aurora
Barber-Greene Co.
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Bayonne
Revolvator Co., 344-352 Garfield Ave.
N. Y., New York City
Lowerator Co., Inc., 246 W. 23d St.

Elevators, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Elevators, Automatic Package

Pa., Ellwood City
Mathews Gravity Carrier Co.

Elevators, Barrel

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Elevators, Bucket

Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Elevators, Electric

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cincinnati
Reedy Co., J. H.
Warner Elevator Mfg. Co.
Pa., Chester
Wetherill & Co., Inc., Robert

Elevators, Freight

Conn., New Haven
Eastern Machinery Co.
Mass., Worcester
Standard Plunger Elevator Co., 243 Stafford St.
N. Y., New York City
General Elevator Co., 29 Broadway
Otis Elevator Co., 11th Ave. and 26th St.
N. Y., Syracuse
Houser Elevator Co., 314 E. Water St.

Elevators, Hand Power

N. Y., New York City
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Otis Elevator Co., 11th Ave. and 26th St.

Elevators, Hydraulic

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cincinnati
Reedy Co., H. J.
Ohio, Toledo
Haughton Elevator & Machine Co.
Pa., Chester
Wetherill & Co., Robert

Elevators, Hydraulic Plunger

Mass., Worcester
Standard Plunger Elevator Co., 243 Stafford St.
Pa., Chester
Wetherill & Co., Inc., Robert

Elevators, Inclined, Automatic

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.

Elevators, Pneumatic

Ill., Harvey
Whiting Foundry Equipment Co.

Elevators, Portable

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. J., Jersey City
Revolvator Co., 344-352 Garfield Ave.

Elevators, Sack

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Elevators, Vertical, Automatic

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mo., St. Louis
Alvey Mfg. Co.

Emery

Ill., Chicago
Rhodes & Co., Jas. H., 157 W. Kinzie St.
N. Y., New York City
Waddell & Co., R. J., 55 Beekman St.
N. Y., Niagara Falls
Carborundum Co.

Emery Cloth

Mass., Boston
American Glue Co., 121 Beverly St.

Emery Paper

Mass., Boston
American Glue Co., 121 Beverly St.

Emery Wheels *(see Grinding Wheels)*

Emery Wheel Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Emulsifiers

N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
De Laval Separator Co., 165 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Emulsifiers, Centrifugal

N. Y., New York City
De Laval Separator Co., 165 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
N. Y., New York City
Mott Co., John L., 118 Fifth Ave.
Pa., Philadelphia
Stokes Machine Co., F. J.

Enameled Apparatus, Acid Resisting

Ohio, Elyria
Elyria Enameled Products Co.

Enameling Machinery

N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Pa., Philadelphia
American Insulating Machinery Co., Inc., Fairhill and Huntingdon Sts.

Engineers, Chemical (*see Chapter V*)

Engines, Blowing

Ill., Chicago
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
Ill., Quincy
Gardner Governor Co.
Mich., Detroit
American Blower Co., 1400 Russell St.
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corporation, 113 Broadway
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Engines, Chemical

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Engines, Corliss

Cal., Los Angeles
Llewellyn Iron Works
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Chester
Wetherill & Co., Robt.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Waynesboro
Frick Co., Inc.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Engines, Deep Well

Ill., Aurora
American Well Works

Engines, Diesel

Conn., Groton
New London Ship & Engine Co.
Ind., Anderson
Anderson Foundry & Machine Works
Ind., Indianapolis
Lyons Atlas Co.
Mo., St. Louis
Fulton Iron Works
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Mt. Vernon
Hope Engineering & Supply Co.
Wis., Milwaukee
Nordberg Mfg. Co.

Engines, Fire, Chemical

Mass., Boston
Badger Fire Extinguisher Co., Inc., 34 Portland St.
N. Y., Elmira
American-La France Fire Engine Co.
Wis., Milwaukee
Erwin Mfg. Co.

Engines, Gas

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett-Hayward Co.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Fairbanks Co., Broome St.
De LaVergne Machine Co., 1138 E. 138th St.
Gerdes & Co., Inc., 30 Church St.
Machinery Utilities Co., 501 5th Ave.
Otto Gas Engine Works
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., Schenectady
General Electric Co.
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Ohio, Mt. Vernon
Hope Engineering & Supply Co.
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Davis Mfg. Co., 57th Ave. and Mitchell St.

Engines, Gasoline

Ohio, Mt. Vernon
Hope Engineering & Supply Co.

Engines, Gas Producer

Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Pa., Philadelphia
Otto Gas Engine Works

Engines, Oil

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
*Elmer, H. N., 53 W. Jackson Blvd.
Fairbanks-Morse & Co., S. Wabash Ave.
Mich., Detroit
Gray Motor Co.
Mo., St. Louis
Fulton Iron Works
N. Y., New York City
De LaVergne Machine Co., foot E. 138th St.
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Mt. Vernon
Hope Engineering & Supply Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Davis Mfg. Co., 57th Ave. and Mitchell St.

Engines, Poppet Valve

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Engines, Pumping

Ill., Aurora
American Well Works
Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Philadelphia
Otto Gas Engine Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Engines, Steam

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Cal., San Francisco
Union Iron Works Co., 260 California Ave.
Conn., New Britain
New Britain Machine Co., 65 Chestnut St.
Del., Wilmington
Pusey & Jones Co.
Ill., Aurora
American Well Works
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Mich., Bay City
Industrial Works
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Wickes Bros.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Baldwinsville
Morris Machine Works
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Brown Hoisting Machinery Co., 50 Church St.
Hunt Co., C. W., 45 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
Ohio, Cincinnati
Houston-Stanwood & Gamble Co., The
Pa., Chester
Wetherill & Co., Robert
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Wood & Co., R. D., 400 Chestnut St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Nordberg Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Engines, Vertical Steam

Mich., Kalamazoo
Clarage Fan Co.

Erasers, Blackboard

Ill., Chicago
Andrews Co., A. H., 174 Wabash Ave.
Ill., Chicago Heights
Weber-Costello Co.

Escalators

N. Y., New York City
Otis Elevator Co., 11th Ave. and 26th St.

Evaporation Plants (*see Evaporators*)

Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Evaporators, Basket Type

Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Sowers Mfg. Co., 1300 Niagara St.
Machinery Utilities Co., Inc., 501 5th Ave.
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Sanborn Evaporator Co., 87 Wall St.
Pa., Philadelphia
Stokes Machine Co., B. F.

Evaporators, Carlson

N. Y., New York City
International Process Co., 5 Beekman St.

Evaporators, Chemical Plants

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Redfield, Robert S., 327 S. La Salle St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mo., St. Louis
Brecht Co., 1203 Cass Ave.
Cook Cane Mill & Evaporator Co., 320 N. 2d St.
Zellweger & Sons, John, 1900 Adelaide Ave.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J. Hampton
Standard Water Systems Co.
N. Y., Brooklyn
Burkhard, Inc., Thomas, 494 Flushing Ave.
Improved Appliance Co., 415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Buffalo Steam Pump Co.
Devine Co., J. P., 1372 Clinton St.
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
American Lead Burning Corporation, 30 Church St.
General Ceramics Co., 50 Church St.
Griscom-Russell Co., 90 West St.
International Process Co., 5 Beekman St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Palo Co., 90-92 Maiden Lane
Ordway, Charles, 174 Fulton St.
Roos' Sons, August, 429 E. 91st St.
Sanborn Evaporator Co., 87 Wall St.
United Lined Tube & Valve Co., 111 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., Rochester
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams St. and B. & O. R. R.
U. S. Stoneware Co.
Ohio, Cleveland
Dyer Co., 2033 Euclid Ave.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Jenkintown
Hodges Water Still Co., Inc.
Pa., Philadelphia
Blair Campbell & McLean, Ltd.
Oat & Sons, Joseph, 232 Quarry St.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.

Evaporators, Crystallizing

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Badger & Sons, E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., 707 D. S. Morgan Bldg.
Pa., Philadelphia
Stokes Machine Co., F. J.

Evaporators, Film Triple Effect

Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.

Evaporators, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.
N. Y., Rochester
Pfaudler Co.

Evaporators, High Density

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Zaremba Co., 707 D. S. Morgan Bldg.
Pa., Philadelphia
Stokes Machine Co., F. J.

Evaporators, Horizontal and Vertical Tube

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Evaporators, Lead Lined

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., New York City
American Lead Burning Corporation, 30 Church St.
Sanborn Evaporator Co., 87 Wall St.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Buffalo
Buffalo Foundry & Machine, 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Evaporators, Multiple Effect

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
Ott Co., George F., 213 Buttonwood St.
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.

Evaporators, Pressure

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter S., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
Ott Co., George F., 213 Buttonwood St.
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Evaporators, Rapid

Pa., Philadelphia
Blair, Campbell & McLean Co., Colonial Trust Bldg.

Evaporators, Rapid Circulation

Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., Niagara Life Ins. Bldg.
Pa., Philadelphia
Stokes Machine Co., 17th and Cambria Sts.

Evaporators, Salt Brines

Mich., Saginaw, W. S.
Nickle, Frank H., 1321 N. Bond St.

Evaporators, Single and Multiple Effect

Pa., Philadelphia
Kestner Evaporator Co., 18th St. and Allegheny Ave.

Evaporators, Sugar

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Md., Baltimore
Bartlett Hayward Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.

Evaporators, Vacuum

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Sanborn Evaporator Co., 87 Wall St.
United Lined Tube & Valve Co., 111 Broadway
Pa., Philadelphia
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.

Evaporators, Vacuum, Single and Multiple Effect

N. Y., Buffalo
Devine Co., J. P., 1366 Clinton St.

Evaporators, Waern

N. Y., New York City
International Process Co., 5 Beekman St.

Excavators (*see Buckets*)

Exchangers

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Lummus Co., Walter E., 173 Milk St.
Sturtevant Co., B. F., Hyde Park
Mich., Kalamazoo
Clarage Fan Co.
Mich., Detroit
American Blower Co., 1400 Russell St.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., Buffalo
Buffalo Forge Co.
Buffalo Foundry & Machine Co.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
General Ceramics Co., 50 Church St.
Stevens Bros., Singer Bldg.
Pa., Philadelphia
Braemer Air Conditioning Co., LaFayette Bldg.
Pa., Pittsburgh
Koppers Co., H.
R. I., Providence
General Fire Extinguisher Co.

Exhaust Wheels, Electric

N. J., Elizabethport
Diehl Mfg. Co.

Exhausters (*see Blowers, Exhaust*)

Exhausters, Gas

Conn., Hartford
Terry Steam Turbine Co.
Ind., Connersville
Connersville Blower Co.
Mich., Detroit
American Blower Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Exhausters, Lead

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Exhausters, Lead (Steam Jet)

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Exhausters, Volume, Cast Housed

Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Expansion Joints

N. Y., Buffalo
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Explosive Plants

Ill., Chicago
Westinghouse, Church Kerr & Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
Pa., Williamsport
Valley Iron Works

Extraction Plants

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Howard & Morse, 1197 De Kalb Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Garrigue & Co., Wm., 154 Nassau St.
Sanborn Evaporator Co., 50 Broad St.
N. Y., Rochester
Will Corporation
N. Y., Troy
Tolhurst Machine Works

Extractors, Centrifugal (*see also Centrifugals*)

Extractors, Hydro, Centrifugal

Mass., Brighton
International Equipment Co., 352 Western Ave.
N. Y., Troy
Tolhurst Machine Works

Extractors, Oil and Grease

Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Extractors, Screw

Ohio, Cleveland
Cleveland Twist Drill Co.

Extractors, Tar

Ind., Ft. Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Ohio, Cleveland
Gas Machinery Co.
Ohio, Dayton
Smith Gas Engineering Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.

Fans, Acid

Colo., Denver
Stearns-Roger Mfg. Co., 1718-20 California St.
Ill., Chicago
Ilg Electric Ventilating Co., 154 Whiting St.
Mass., Boston
Electric Blower Co., 352 Atlantic Ave.
Sturtevant Co., B. F., Hyde Park
Mass., Holyoke
Perkins & Son, Inc., B. F.
Mich., Detroit
American Blower Co., 1400 Russell St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Howard & Morse, 45 Fulton St.
N. Y., Schenectady
General Electric Co.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood St.

Fans, Centrifugal

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Ilg Electric Ventilating Co., 154 Whiting St.
Weller Mfg. Co., 1820 N. Koestner Ave.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Green Fuel Economizer Co.
N. Y., Schenectady
General Electric Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., Philadelphia
Philadelphia Textile Machinery Co.

Fans, Disk

Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Fans, Dust (*see Blowers*)

Fans, Electric

Conn., Hartford
Connecticut Blower Co., Inc.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Howard & Morse, 45 Fulton St.
N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Fans, Exhaust

Conn., Hartford
Connecticut Blower Co., Inc.
Ill., Chicago
Ilg Electric Ventilating Co., 154 Whiting St.
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
Ind., Indianapolis
Indiana Fan Co., 40 E. South St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Duriron Castings Co., 90 West St.
Green Fuel Economizer Co.
Howard & Morse, 45 Fulton St.
N. Y., Schenectady
General Electric Co.
N. Y., Troy
Tolhurst Machine Co.
Ohio, Springfield
Robbins & Myers Co., The
Pa., Philadelphia
Philadelphia Textile Machinery Co
R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Fans, Forced and Induced Draft

Conn., Hartford
Terry Steam Turbine Co.

Fans, Propeller

Ill., Chicago
Ilg Electric Ventilating Co.

Fans, Radial Flow

N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Fans, Rotary, Lead

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Fans, Vacuum (*see Fans, Ventilating*)

Fans, Ventilating (*see Fans, Exhaust; Ventilating Systems*)

Faucets, Acid Proof

N. Y., Brooklyn
Graham Chemical Pottery Works, 986 Metropolitan Ave.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
United Lined Tube & Valve Co., 165 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.

Faucets, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Faucets, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Feed Water Treatment

Ill., Chicago
Dearborn Chemical Co., McCormick Bldg.

Feeders, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Feeders, Ash

Ind., Connersville
Connersville Blower Co.

Feeders, Automatic

Colo., Denver
Colorado Iron Works Co.

Feeders, Boiler

Conn., Hartford
Terry Steam Turbine Co.
Ohio, Ashland
Myers & Bro.

Feeders, Dry

N. Y., New York City
Smidth & Co., F. L., 50 Church St.

Feeders, Grain

Ind., Connersville
Connersville Blower Co.

Feeders, Ore

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Colo., Denver
Mine & Smelter Supply Co.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Feeders, Slurry

N. Y., New York City
Smidth & Co., F. L., 50 Church St.

Fehling's Test Outfit

N. Y., New York City
Squibb & Sons., E. R., 80 Beekman St.

Felt, Filter

Ill., Chicago
Booth Felt Co., Inc., 116 S. 5th Ave.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
Mass., Boston
American Felt Co., 100 Summer St.
Felters Co., 103 Bedford St.
Mass., Winchester
Bacon Felt Co.
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Booth Felt Co., Inc., 440 19th St.
N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Felt, Waterproof

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Flintkote Mfg. Co., 88 Pearl St.
Mo., St. Louis
Certain-teed Products Corp., 314 N. Broadway
N. Y., New York City
Barrett Co., 17 Battery Pl.
Hydrex Felt & Engineering Co., 120 Liberty St.
Texas Co., 17 Battery Pl.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Fertilizer Machinery (*see also Specific Headings*)

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Sackett, A. J.
Mass., Boston
Bradley Pulverizer Co., 82 State St.
Sturtevant Mill Co., Harrison Sq.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
American Lead Burning Corporation, 30 Church St.
American Process Co., 68 William St.
Ruggles-Coles Engineering Co., 50 Church St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
S. C., Charleston
Valk & Murdoch Co.

Fertilizer Machinery, Fish

N. Y., New York City
American Process Co., 68 William St.

Fertilizer Plants (*See also Fertilizer Machinery*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Fibre, Celluron

Pa., Bridgeport
Diamond State Fibre Co.

Fibre, Flexible

Pa., Bridgeport
Diamond State Fibre Co.
Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.

Fibre, Vulcanized

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Delaware Hard Fibre Co.
Pa., Bridgeport
Diamond State Fibre Co.

Filing Cabinets, Blue Print, Steel

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Filing Cabinets, Blue Print, Wood

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Fillers, Automatic Machinery

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Liquid Carbonic Co., 31st St. and Kinzie Ave.
N. Y., Buffalo
Rice & Adams Corp.

Fillers, Paper

Ill., Chicago
Victor Chemical Works, 345 S. Dearborn St.
Mich., Kalamazoo
Western Paper Makers Chemical Co.
N. Y., New York City
St. Lawrence Talc Co., 7 E. 42d St.
Talc Products Co., 11 Pine St.
N. Y., Syracuse
Solvay Process Co.

Filling and Closing Collapsible Tubes, Machines

Pa., New Brighton
Standard Specialty & Tube Co.

Filling Tower, Acid Proof

Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Filter Bags

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., New York City
Turner, Halsey Co., 62 Leonard St.
Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.

Filter Bottoms, for Tanks

Colo., Denver
Colorado Iron Works Co.

Filter Cloth (*see Cloth, Filter*)

Filter Masse

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Paper (*see Paper, Filter*)

Filter Plates

Ill., Batavia
Sperry & Co., D. R.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Filter Plates, Acid Proof

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Filter Presses (*see Presses, Filter*)

Filter Press Sacks

N. Y., New York City
Stanley, W. W., 50 Church St.

Filter Pulp

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Racks

N. J., Newark
Williamson, C. T.
N. Y., New York City
Estey Wire Works, 32 Cliff St.
Maris & Co., J. M., 40 Barclay St.

Filter Sand

Ill., Chicago
United States Silica Co., 418 People's Gas Bldg.

Filter Wheel, Continuous Rotary Vacuum

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Filtering Material

Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Passiac
Brighton Mills
N. Y.,New York City
Celite Products Co., 11 Broadway
Turner, Halsey Co., 62 Leonard St.
N. Y., New York City
Angel & Co., H. Reeve, 7-11 Spruce St.
General Ceramics Co., 50 Church St.
Multi Metal Separating Screen Co., 251 W. 19th St.
N. Y., Rochester
General Filtration Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg.

Filters, Acid

N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Utah, Salt Lake City
United Filters Corp.

Filters, Acid Proof

Cal., San Francisco
Oliver Continuous Filter Co., 505 Market St.
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
N. Y., New York City
Industrial Filtration Corp., 115 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Filters, Air

N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Clarifying

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
U. S. Bottlers Machinery Co., 2511-17 Park Ave.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Shriver & Co., T.

Filters, Clarifying—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
De Laval Separator Co., 165 Broadway
General Ceramics Co., 50 Church St.
Industrial Filtration Corporation, 115 Broadway
Lungwitz, Emil E., 30 Church St.
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Ohio, Akron
U. S. Stoneware Co., 174-178 Annandale Ave.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Kestner Evaporator Co., 18th St. and Allegheny Ave.
Utah, Salt Lake City
Kelly Filter Press Co.
United Filters Corp., Felt Bldg.

Filters, Continuous

N. Y., New York City
United Filters Corporation, 65 Broadway

Filters, Gases

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Gooch

Md., Woodlawn
Powhatan Mining Co.

Filters, Gravity

N. Y., New York City
Industrial Filtration Corp., 115 Broadway
Utah, Salt Lake City
United Filters Corp.

Filters, Industrial (*see Filters, Chemicals*)

Filters, Iron Removal

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Manganese Removal

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Metallurgical Smoke

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Oil

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Ill., Batavia
Sperry & Co., D. R.
Ind., Ft. Wayne
Bowser & Co., S. F.
Mass., Boston, Hyde Park
Plouff Co., 1558 River St.
N. J., Jersey City
Koven & Bro., L. O., 1540 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.
N. Y., New York City
Permutit Co., The, 440 4th Ave.
Utah, Salt Lake City
United Filters Corp.

Filters, Pulp

Cal., San Francisco
Oliver Continuous Filter Co.
Ill., Batavia
Sperry & Co., D. R.
N. J., Harrison
Shriver & Co., T.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
Industrial Filtration Corporation, 115 Broadway
Lungwitz, Emil E., 30 Church St.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg.

Filters, Salt

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Filters, Slime

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., New York City
United Filters Corporation

Filters, Sludge

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Filters, Softening

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Suction

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
Ohio, East Akron
Knight, Maurice A.
Utah, Salt Lake City
United Filters Corp.

Filters, Suction, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Filters, Vacuum

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
Industrial Filtration Corporation, 115 Broadway
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg.

Filters, Washing

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.
Ill., Chicago
International Filter Co.
Ind., East Chicago
Graver Tank Works, Wm.
Mass., Florence
Norwood Engineering Co.
N. J., Jersey City
Koven & Brother, L. O
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
International Filtration Corp., 115 Broadway
Lungwitz, Emil E., 30 Church St.
Griscom-Russell Co., 90 West St.
N. Y., Syracuse
Booth Apparatus Co., Warren St.
N. Y., Troy
Ross Valve Mfg. Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 First Ave.
Utah, Salt Lake City
United Filters Corporation, Felt Bldg.

Filters, Water, Industrial

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Mich., Detroit
Hygeia Filter Co.
N. Y., New York City
New York Continental Jewell Filtration Co.

Filters, Wax

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Filtration Plant Equipment

N. Y., New York City
International Filtration Corp., 115 Broadway

Filtration Plants, Gas

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filtros

N. Y., Rochester
General Filtration Co., Inc., 325 Cutler Bldg.

Fire Alarm Equipments

N. Y., New York City
Ostrander & Co., W. R., 371 Broadway

Fire Engines (*see Engines, Fire; also Chemical Engines*)

Fire Extinguishers (*see also Chemical Engines*)

Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
American Fire Apparatus Co.
Automatic Sprinkler Co., of America 123 William St.
Hayward & Co., S. F., 250 W. 54th St.
Johns-Manville Co., H. W., 296 Madison Ave.
Montgomery & Co., Inc., 105-107 Fulton St.
Pyrene Mfg. Co., 52 Vanderbilt Ave.
R. I., Providence
General Fire Extinguisher Co.
Wis., Milwaukee
Erwin Mfg. Co.

Fire Extinguishers, Hand Chemical

Mass., Boston
Badger Fire Extinguisher Co., Inc., 34 Portland St.

Fire Pots, Gas

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Fireproofing (Hollow Tile)

N. Y., New York City
Celite Products Co., 11 Broadway
Maurer & Sons, Henry, 420 E. 23d St.

Fire Protection Devices

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Fittings, Acid Proof

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Jones Foundry & Machine Co., W. A., 4402 W. 12th St.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Russell Wheel & Foundry Co., Chene & B. L. R. R.
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Driver-Harris Wire Co.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester St.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Metals Production Equipment Co., 165 Broadway
Roos' Son, August, 429 E. 91st St.
Stevens Brothers, 928 Singer Bldg.
Thermal Syndicate, Ltd., 508 41st St.
United Lined Tube & Valve Co., 111 Broadway
Wilfert Co., John
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Midvale Steel Co., Widener Bldg.
Wood & Co., R. D., 400 Chestnut St.
Pa., Pittsburgh
Edgewater Steel Co.
Marshall Foundry Co., 28th and R. R. Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.

Fittings, Aluminium

Ill., Chicago
Sturges & Burr Mfg. Co., 508 S. Green St.
N. J., Newark
Metal Products Co.
Pa., Pittsburgh
Aluminum Co. of America

Fittings, Ammonia

N. Y., New York City
De LaVergne Machine Co., 1205 E. 138th St.
Pa., Carbondale
Carbondale Machine Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Fittings, Brass

Conn., Hartford
Pratt & Cady Co.
Ill., Chicago
Crane Co.
Mo., St. Louis
Nelson Mfg. Co., N. O., Tenth and Chestnut Sts.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
American Brass & Copper Co., 138 Lafayette Ave.
Larkin & Co., J. K., 34 Reade St.
Welding Supply Co., Inc., 132 Nassau St.
Wilfert Co., John, 259 Broadway
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Powell Co., Wm., 2521-31 Spring Grove Ave.
Ohio, Mansfield
Ohio Brass Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.
Pittsburgh Valve, Foundry and Construction Co., P. O. Box 1016

Fittings, Brine

Neb., Omaha
Baker Ice Machine Co.
N. Y., New York City
Wilfert & Co., John, 259 Broadway
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., York
York Mfg. Co.

Fittings, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Cal., Los Angeles
Llewellyn Iron Works
N. J., Bayonne
Bayonne Castings Co.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Sowers Mfg. Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Stevens Bros., Singer Bldg.
Wilfert Co., John, 259 Broadway
Ohio, Alliance
Morgan Engineering Co.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.
Pa., South Bethlehem
Bethlehem Steel Co.
Wis., Milwaukee
Chain Belt Co.
Vilter Mfg. Co.

Fittings, Cast Steel (*see Steel Plate Construction*)

Fittings, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Fittings, Copper (*see Fittings, Brass*)

Fittings, Flanged

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Gas Mains (*see Fittings, Cast Iron*)

Fittings, Glass Enamel

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Fittings, Hydraulic

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Larkin & Co., J. K., 34 Reade St.
Wilfert Co., John, 259 Broadway
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Lead Lined

N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Fittings, Malleable Iron

Conn., Branford
Malleable Iron Fittings Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Larkin & Co., J. K., 34 Reade St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Pump (*see Pumps, Various Headings*)

Fittings, Rubber

Conn., Bridgeport
Canfield Rubber Co.
Mass., Andover
Tyer Rubber Co.
N. J., Trenton
Luzerne Rubber Co.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
R. I., Providence
Davol Rubber Co.

Fittings, Steel (*see Steel Plate Construction*)

Fittings, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Fittings, Tank

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Fittings, Tin Lined

N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Fittings, Tower

Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
Ill., Monmouth
Western Stoneware Co.
Ind., East Chicago
Graver Tank Works, Wm.
Mass., Boston
New England Tank & Power Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Stevens Bros., Singer Bldg.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Fittings, Vulcanized

N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 126 Duane St.

Fittings, Water Main (*see Fittings, Cast Iron*)

Fixtures, Laboratory (*see Laboratory Apparatus and Equipment*)

Fixtures, Moisture-Proof

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Fixtures, Weatherproof (Heavy Duty)

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Flanges, Pipe, Cast Iron (*see Fittings, Cast Iron*)

Flanges, Pipe, Rubber (*see Fittings, Rubber*)

Flasks

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Flasks, Assay

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Carbonic Acid

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Chemical (*see Laboratory Apparatus and Equipment*)

Flasks, Culture

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Distillation

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Erlenmeyer

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Extraction

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Filtering

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Fractional Distillation

N. Y., Rochester
Will Corporation

Flasks, Fused Silica

N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Flasks, Giles'

N. Y., Rochester
Will Corporation

Flasks, Glass

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. J., Millville
International Glass Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.
Pa., Rochester
Fry Glass Co., H. C.

Flasks, Kjeldahl

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Saponification

N. Y., Rochester
Will Corporation

Flasks, Sugar

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flasks, Volumetric

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Flasks, Watering

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Flooring, Fireproof

Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Pa., Pittsburgh
National Fire Proofing Co., Fulton Bldg.

Flooring, Laboratory

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Troegerlith Tile Co., 103 Park Ave.

Flooring, Steel (*see Steel Plate Construction*)

Floors, Acid Proof

Ill., Chicago
Standard Asphalt & Refining Co., 208 S. La Salle St.
N. Y., New York City
Barrett Co., 17 Battery Pl.
Johns-Manville Co., H. W.

Floors, Alkali Proof

Ill., Chicago
Standard Asphalt & Refining Co., 208 S. La Salle St.
N. Y., New York City
Barrett Co., 17 Battery Pl.
Johns-Manville Co., H. W.

Floors for Chemical Plants

Ill., Chicago
American Magnesia Products Co., 600 W. Austin Ave.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Flour Milling Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Flour Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Flue Blowers (*see also Blowers*)

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Flue Cleaners

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Flue Gas Instruments

Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.

Flue Lining

Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Flue Pipes

Ala., Birmingham
American Cast Iron Pipe Co.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Pittsburgh
National Tube Co.

Flue Welding Machines

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Flues, Smoke

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

Flumes

Ill., Chicago
Chicago Bridge & Iron Works
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Dover Boiler Works, 55 Church St.
Ohio, Alliance
Reeves Bros. Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
Scaife & Sons Co., Wm. B.

Flushers

Cal., Los Angeles
Llewellyn Iron Works
Ind., South Bend
Studebaker Corp.

Forehearths

Colo., Denver
Colorado Iron Works Co.

Forges, Bench

N. Y., New York City
American Gas Furnace Co., 24 John St.

Forges, Brazing

N. Y., Brooklyn
Hauck Mfg. Co., 101-13 Eleventh St.

Forges, Compressed Air

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Forges, Gas

N. Y., New York City
American Gas Furnace Co., 24 John St

Forges, Portable, Oil

Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., Buffalo
Buffalo Forge Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.

Formaldehyde Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Sq., W.

Foundries, Cast Iron

Wis., Milwaukee
Nortmann Duffke Fdy. Co., 1210 27th Ave.

Foundry Riddles

N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Frames, Blue Print

Ill., Chicago
Pease Co., C. F., 213-31 Institute Pl.

Fronts, Furnace

N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Stevens Bros., Singer Bldg.
Pa., Fullerton
Fuller-Lehigh Co.

Fruit Essence Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.

Fuel Economizers

Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Fumigating Apparatus

N. Y., New York City
Hospital Supply Co., 53 5th Ave.

Fumigating Machinery

Cal., Los Angeles
Braun Corp., The, 363 New High St.

Funnels, Acid Proof

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
N. Y., New York City
General Ceramics Co., 50 Church St.
Sidio Co. of America, Inc., 37 Murray St.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.

Funnels, Aluminium

Pa., Philadelphia
Hero Mfg. Co.

Funnels, Buechner

Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Funnels, Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Funnels, Glass

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Md., Baltimore
Swindell Bros.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Maris & Co., J. M.
Ohio, Columbus
*Laboratory Supply Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
Macbeth Evans Glass Co.

Funnels, Hard Rubber

Mass., Andover
Tyler Rubber Co.
N. Y., New York City
American Hard Rubber Co., 11 Mercer St.
U. S. Rubber Co., 1790 Broadway

Funnels, Separating *(see Laboratory Apparatus and Equipment)*

Funnels, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Furnace, Bench

Iowa, Cedar Rapids
Johnson Gas Appliance Co.

Furnace Settings for Caustic Pots, Fusion Kettles and Carbon Bisulphide Retorts

Mich., W. S., Saginaw
Nickle, Frank H., 1321 N. Bond St.

Furnaces, Air Tempering

N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces, Annealing

Cal., Los Angeles
*Braun Corp., The, 363 New High St.
Ill., Harvey
Whiting Foundry Equipment Co.
Iowa, Cedar Rapids
Johnson Gas Appliance Co.
Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.
Mass., Boston
American Incandescent Heat Co., Inc., 10 Post Office Sq.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., Newark
Electric Heating Apparatus Co.

Furnaces, Annealing—*cont.*

N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Surface Combustion Co., Wilbur Ave. and Sunswick St.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Boker & Co., Inc., H., Broadway and Duane Sts.
Dwight & Lloyd Sintering Co., 29 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Brown Instrument Co.
Pa., Pittsburgh
McClure Son & Co., G. W., Bessemer Bldg.
Tate-Jones & Co., Empire Bldg.

Furnaces, Assaying

Cal., Los Angeles
Calkins Co., 348 N. Main St.
Cal., San Francisco
*Braun-Knecht-Heimann Co., 576 Mission St.
Colo., Denver
Denver Fire Clay Co., 1742 Champa St.
Md., Baltimore
Monarch Engineering & Mfg. Co., American Bldg.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
*Berge, J. & H., 93 John St.
*Eimer & Amend, 205-211 3d Ave.
Mine & Smelter Supply Co., 42 Broadway
Rockwell Co., W. S., 50 Church St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square

Furnaces, Babbitt Metal

Mass., Springfield
Quigley Furnace & Foundry Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Rockwell Co., W. S., 50 Church St.
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Ohio, Cleveland
Strong, Carlisle & Hammond Co., 336 Frankfort, N. W.
Pa., Pittsburgh
Tate, Jones & Co., Empire Bldg.

Furnaces, Bar

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Barium Chloride

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Blast

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.
Mich., Muskegon
Muskegon Boiler Works
N. J., Newark
Electric Heating Apparatus Co.
N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Abbe Engineering Co.
Beach-Russ Co., 220 Broadway
Berge, J. & H.
Dover Boiler Works, 55 Church St.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
McClure Son & Co., G. W.
Tate, Jones & Co., Empire Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Blast, Gas

N. J., Newark
Electric Heating Apparatus Co.
N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Abbe Engineering Co.
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Berge, J. & H.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Furnaces, Blast, Gas—*cont.*

Pa., Pittsburgh
McClure Son & Co., G. W.
Tate-Jones & Co., Empire Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Bolt

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Brass, Malleable

Ill., Harvey
Whiting Foundry Equipment Co.

Furnaces, Brazing

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Bullion

Colo., Denver
Colorado Iron Works Co.

Furnaces, Calcining

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Furnaces, Carbon Combustion

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Furnaces, Carbonizing

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Case Hardening (*see also Furnaces, Annealing*)

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Cauldron

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Furnaces, Chemical (*see also Specific Headings*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Furnaces, Combustion, Hevi-Duty

N. J., Newark
Electric Heating Apparatus Co., 123–125 Sussex Ave.

Furnaces, Combustion, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123–125 Sussex Ave.

Furnaces, Copper Matting

Colo., Denver
Colorado Iron Works Co.

Furnaces, Copper Smelting

Colo., Denver
Colorado Iron Works Co.

Furnaces, Crucible (*see Furnaces, Assaying*)

Furnaces, Crucible, Hevi-Duty

N. J., Newark
Electric Heating Apparatus Co., 123–125 Sussex Ave.

Furnaces, Crucible, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123–125 Sussex Ave.

Furnaces, Crucible, Pit

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Crucible, Stationary

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Crucible, Tilting

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Cupelling

Colo., Denver
Colorado Iron Works Co.

Furnaces, Cyanide

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Cyanide Hardening

N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces, Electric

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Chicago Retort & Fire Brick Co., 204 S. La Salle St.
Industrial Electric Furnace Co., 53 W. Jackson Blvd.
Schaar & Co., 1025 S. State St.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.
*Hanovia Chemical & Mfg. Co., Chestnut St. and New Jersey Railroad Ave.
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Englehard, Charles, 30 Church St.
Foley, Inc., Charles B., 170 Broadway
Hamilton & Hansel, 17 Battery Pl.
N. Y., Schenectady
General Electric Co.
Ohio, Alliance
Electric Furnace Co. of America
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.
*Thomas Co., Arthur H., W. Washington Sq.
Queen Gray Co., 618 Chestnut St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Furnaces, Electric, Organic Combustion

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Electric, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Enameling

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
R. I., Providence
United States Gas Furnace Co.

Furnaces, Forging

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
R. I., Providence
U. S. Gas Furnace Co.

Furnaces, Galvanizing

N. Y., New York City
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Gas

Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E. Ave. W.
Mass., Springfield
Gilbert & Barker Mfg. Co.
Minn., Minneapolis
Mahr Mfg. Co., 1300-1310 Quincy St.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
General Chemical Co., 25 Broad St.
Provost Engineering Corp., 220 Broadway
N. Y., Syracuse
Syracuse Industrial Gas Co., 483 S. Salina St.

Furnaces, Hardening *(see Furnaces, Annealing and Tempering)*

Furnaces, Heat Treating

Mass., Springfield
Gilbert & Barker Mfg. Co.
Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Furnaces, Hot Blast

Colo., Denver
Colorado Iron Works Co.

Furnace Insulation

N. Y., New York City
Celite Products Co., 11 Broadway

Furnaces, Laboratory (*see Furnaces, Assaying and Crucible, Electric*)

Furnaces, Lead, Hardening, Melting, Tempering

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Lead Smelting

Colo., Denver
Colorado Iron Works Co.

Furnaces, Melting

Ill., Batavia
Sperry & Co., D. R.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
*Palo Co., 90-92 Maiden Lane
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
R. I., Providence
National Gas Furnace Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Metallurgical (*see Furnaces, Melting*)

Furnaces, Muffle

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
*Schaar & Co., 1025 S. State St.
Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
Mich., Detroit
Hoskins Mfg. Co.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Mine & Smelter Supply Co., 42 Broadway
*Palo Co., 90-92 Maiden Lane
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cleveland
Macleod Co., 2232 Bogen St.
R. I., Providence
National Gas Furnace Co

Furnaces, Muffle, Hevi-Duty

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Muffle, Laboratory, Electric

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.
N. Y., New York City
Electric Heating Apparatus Co., 25 Church St.

Furnaces, Muffle, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Non-Oxidizing

Conn., Waterbury
Kenworthy, Inc., Charles F.

Furnaces, Oil Burning

Conn., Waterbury
Kenworthy, Inc., Charles N.
Mass., Springfield
Gilbert & Barker Mfg. Co.
Mich., Detroit
Standard Fuel Appliance Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Oil Fired

Minn., Minneapolis
Mahr Mfg. Co., 1300–1310 Quincy St.

Furnaces, Oil Tempering

Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces, Oven

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Furnaces, Pot, Iron

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Powdered Coal (*see Furnaces; Melting*)

Furnaces, Producer Gas

N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.

Furnaces, Refining

Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Furnaces, Retort

Colo., Denver
Colorado Iron Works Co.

Furnaces, Rivet

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Roasting (*see Furnaces, Annealing; Furnaces, Assaying*)

Furnaces, Rotary

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
N. Y., New York City
International Process Co., 5 Beekman St.

Furnaces, Silver Smelting

Colo., Denver
Colorado Iron Works Co.

Furnaces, Smelting (*see Furnaces, Annealing; Furnaces, Assaying*)

Furnaces, Soft Metal

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Furnaces, Solder

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.

Furnaces, Steel, Graphite

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Furnaces, Steel, Ore Smelting

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Furnaces, Stills

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Furnaces, Sulphate

Pa., Fullerton
Fuller-Lehigh Co.

Furnaces, Sulphur, for Producing Sulphurous Acid

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Furnaces, Tank

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Furnaces, Tempering (*see Furnaces, Annealing*)

Furnaces, Tinning Baths

N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.

Furnaces, Vacuum

N. Y., Schenectady
General Electric Co.

Furnaces, Welding (*see also Furnaces, Electric*)

Md., Baltimore
Monarch Engineering & Mfg. Co., 1206 American Bldg.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Fuses, Blasting

Del., Wilmington
Atlas Powder Co.
Du Pont de Nemours Co., E. I.
Hercules Powder Co.

Galvanizing

Conn., Branford
Malleable Iron Fittings Co.
Conn., Bridgeport
American Tube & Stamping Co.
Conn., Middletown
Wilcox Crittender & Co.
Ill., Chicago
Illinois Malleable Iron Co.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
Pa., Erie
Erie Foundry Co.
Pa., Reading
Gray Iron Foundry Co.
R. I., Providence
Hill Mfg. Co., Jas.

Galvanometers (*see Electric Measuring Instruments*)

Galvanometers, A. C.

N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Galvanometers, D. C.

N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Garbage Burners (*see Destructors, Refuse*)

Garbage Disposal Machinery (*see Destructors, Refuse*)

Garnet Paper

Mass., Boston
American Glue Co., 121 Beverly St.

Gas Analysis Apparatus

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Combustion Appliances Co., 1778 Estes Ave.
*Schaar & Co., 1025 S. State St.
Simonds & Co., G. L., 230 S. La Salle St.
Vulcan Fuel Economy Co., 230 S. La Salle St.
Mich., Detroit
Precision Instrument Co., 114 Beautien Ave.
Mo., St. Louis
Defender Automatic Regulator Co., 506 Oriel Bldg.
N. Y., Buffalo
Pierce Co., William B., 45 N. Division St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Greiner Co., The Emil, 55 Fulton St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Gas Burner Rings

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Gas Burning Equipment (*see Gas Plant Machinery*)

Gas Cleaning Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Pa., Pittsburgh
Coal & Coke By-Products Co., 421 Wood St.

Gas Collectors

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.

Gas Container Testing Machines

N. J., Aldena
Watson-Stillman Co., The

Gas Engines (*see Engines, Gas*)

Gas Filtering Installations

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Gas Holders (*see Tanks, Steel*)

Gas Lighting Accessories

Conn., Meriden
Bradley & Hubbard Mfg. Co.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Gloucester
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Welsbach Co.
Western Electric Co., 463 West St.

Gas Machines

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Gas Machines, Acetylene

Md., Baltimore
Milburn Co., Alexander, 1420-28 W. Baltimore St.

Gas Mantle Dips

N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Gas Masks

Ill., Chicago
*Elmer, H. N., 53 W. Jackson Blvd.
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American La-France Fire Engine Co., Inc.
N. Y., New York City
National Resuscitating Apparatus Co., Inc., 39 E. 19th St.

Gas Plant Machinery

Ill., Chicago
Schaar & Co., 1025 S. State St.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Muskegon
U. S. Gas Machine & Pattern Co.
N. J., Newark
Isbell-Porter Co.
N. Y., Brooklyn
Improved Appliance Co., 450 Kent Ave.
N. Y., New York City
Akerlund & Semmes Inc., 17 Battery Pl.
American Gas Furnace Co., 24 John St.
Selas Co., 521 W. 23d St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
United Gas Improvement Co., Broad and Arch Sts.
Wood & Co., D. R., 400 Chestnut St.

Gas Plants, By-Product

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Pa., Pittsburgh
Koppers Co., H.

Gas Plants, City

Mich., Detroit
Steere Engineering Co., Woodward Ave.

Gas Plants, Producer (*see also Producers*)

Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.

Gas Producers

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
De La Vergne Machine Co., 1123 E. 138th St.
Gerdes & Co., Inc., 30 Church St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Ohio, Dayton
Smith Gas Engineering Co.
Ohio, Lexington
Smith Gas Engineering Co.
Ohio, Mt. Vernon
Chapman Engineering Co.
Pa., Philadelphia
Coal & Coke By-Products Co., 421 Wood St.
Otto Gas Engine Works
Wood & Co., R. D., 400 Chestnut St.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.
Marshal Foundry Co., 28th and Railroad Aves.

Gas Producers, Fuel

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Gas Purifying Material

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Wiedner Bldg.

Gas Scrubbers (*see Scrubbers, Gas*)

Gas Tanks (*see Tanks, Steel*)

Gas Washing Equipment

Mass., Boston
Spray Engineering Co., 93 Federal St.

Gaskets, Acid Proof

N. J., Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Sarco Co., Inc., 235 Broadway
Schwenker, Inc., W. M., 340 E. 92d St.
U. S. Indestructible Gasket Co., 52 Church St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Akron Metallic Gasket Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Gaskets, Alloy

N. Y., New York City
U. S. Indestructible Gasket Co., 50 Church St.

Gaskets, Ammonia

Ill., Chicago
Guillot Metal Gasket & Supply Co., 24 S. Clinton St.
Ohio, Akron
Akron Metallic Gasket Co.
Pa., Philadelphia
Quaker City Rubber Co.

Gaskets, Asbestos

N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-1548 Elm St.
Ohio, Lockland
Cavey Mfg. Co., Philip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Franklin
Franklin Mfg. Co.
Pa., Philadelphia
Quaker City Rubber Co,

Gaskets, Copper

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
Mich., Detroit
McCord Mfg. Co., 2587 E. Grand Blvd.
N. J., New Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 84 Lafayette St.
Sarco Co., Inc., 235 Broadway

Gaskets, Copper, Corrugated

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. Y., New York City
U. S. Mineral Wool Co., 280 Madison Ave.

Gaskets, Devo

N. J., New Brunswick
Goetze Gasket & Packing Co.

Gaskets, Lead

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. Y., New York City
Rebele, L. J., 50 Church St.
United Lead Co., 111 Broadway
U. S. Indestructible Gasket Co., 50 Church St.
Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.

Gaskets, Lead Alloys

N. Y., New York City
Rebele, L. J., 50 Church St.

Gaskets, Leather

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren Co., Chas. A., 30-38 Ferry St.

Gaskets, Metal, Various

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. J., New Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Sarco Co., Inc., 235 Broadway
Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-48 Elm St.

Gaskets, Oil Proof (*see Gaskets, Rubber*)

Gaskets, Rubber

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
Knowlton Rubber Co., Geo. W., 60 Pearl St.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-48 Elm St.
Ohio, Cleveland
Mechanical Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Gaskets, Sheet Packings (Asbestos, Fibre, Paper)

N. Y., New York City
*Rebele, L. J., 50 Church St.

Gaskets, Tubing

N. Y., New York City
Jenkins Brothers, 80 White St.

Gaskets, Vulcanized Fibre

Del., Wilmington
American Vulcanized Fibre Co.

Gaskets and Washers, Wood Asbestos

N. Y., New York City
U. S. Indestructible Gasket Co., 50 Church St.

Gates, Bin

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.

Gates, Blast

Colo., Denver
Colorado Iron Works Co.

Gates, Discharge

Colo., Denver
Colorado Iron Works Co.

Gauge Glasses

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Gauge Rods

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Gauge Testers

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co.
N. Y., Brooklyn
Schaeffer & Hudenberg Mfg. Co., Berry and S. 5th Sts.
N. Y., New York City
Tagliabue Mfg. Co.
Pa., Philadelphia
Lonergan Co., J. E., 211-15 Race St.
Quimby Engineering Co., 915 Ridge Ave.

Gauges, Altitude

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges Ammonia

Conn., Hartford
Pratt & Cady Co., Inc.
Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester
Taylor Instrument Co.
Pa., Philadelphia
Lonergan Co., J. E., 211-215 Race St.

Gauges, Automatic Safety

N. Y., Watertown
Watertown Specialty Co., 112 E. Moulton St.

Gauges, Compound

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Differential

Ill., Chicago
Sargeant Steam Meter Co., 2835 Armitage Ave.
Mass., Foxboro
Foxboro Co. Inc.
Mass., Waterbury
Bristol Co
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Gauges, Draft

Conn., Waterbury
Bristol Co.
Mass., Boston
Bailey Meter Co., 141 Milk St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
Mo. St. Louis
Defender Automatic Regulator Co., 506 Oriel Bldg.
N. Y., Brooklyn
Schaeffer & Budenberg M'g. Co., Berry and S. Fifth Sts.
Tagliabue Mfg. Co., C. J., 18-88 33d St
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.

Gauges, Electric

Conn., Waterbury
Bristol Co.
N. Y., Schenectady
General Electric Co.

Gauges, Gas *(see Gauges, Test)*

Gauges, Gas, High Pressure

N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.

Gauges, Hydraulic

Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
American Meter Co., 559 W. 47th St.
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester.
Taylor Instrument Cos.

Gauges, Indicating

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. Y., New York City
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.

Gauges, Mercury

Mass., Foxboro
Foxboro Co., Inc.
Mich. Detroit
Precision Instrument Co.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg Co., Berry and S. 5th Sts.
Pa., Philadelphia
Brown Instrument Co.

Gauges, Oil

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Gauges, Oil Pressure

N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Pressure

Conn. Waterbury
Bristol Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.

Gauges, Pressure—*cont.*

N. Y., Brooklyn
Schaeffer & Budenberg Mfg., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.
Uehling Instrument Co., Empire Bldg.
Pa., Philadelphia
Brown Instrument Co.
Lonergan Co., J. E., 211-215 Race St.
Quimby Engineering Co., 450 N. 10th St.

Gauges, Pyrometer

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Rain

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., Rochester
Taylor Instrument Cos.

Gauges, Recording

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.
Uehling Instrument Co., Empire Bldg.
Pa., Philadelphia
Brown Instrument Co.

Gauges, Steam

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Ashton Valve Co., 271 Franklin St.
Crosby Steam Gauge & Valve Co., 38 Central St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., J. C., 18 33d St.
N. Y., New York City
United States Gauge Co., 67 Wall St.
N. Y., Rochester
Taylor Instrument Cos.
Ohio, Wadsworth
Ohio Injector Co.
Pa., Philadelphia
Belfield Co., H., 435 N. Broad St.
Brown Instrument Co.

Gauges, Test

Mass., Boston
American Steam Gauge & Valve Co.
Mass., Foxboro
Bristol Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Tire

Mass., Chicopee Falls
Fisk Rubber Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, "U"

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

Gauges, Vacuum

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Co.
Crosby Steam Gage & Valve Co., 40 Central St.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co. Berry and S. 5th St.
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
U. S. Gauge Co., 67 Wall St.
Pa., Philadelphia
Brown Instrument Co.
Quimby Engineering Co., 450 E. 10th St.

Gauges, Water

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
American Injector Co.
Detroit Lubricator Co.
N. Y., New York City
Jenkins Bros., 80 White St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Gauges, Water, High Pressure

Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.

Gauze, Chemists'

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.

Gauze, Plain

N. J., New Brunswick
Johnson & Johnson
N. Y., New York City
Bauer & Black, 104 E. 25th St.

Gauze, Platinum Wire

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Gearing, Flexible

N. Y., Ithaca
Morse Chain Co.

Gears, Bronze

Del., Wilmington
Walker & Elliott, Inc.
N. Y., Niagara Falls
Titanium Bronze Co.
Pa., Pittsburgh
Vanadium Metal Co., Vanadium Bldg.

Gears, Double Helical Speed Reducing

N. J., Trenton
De Laval Steam Turbine Co.

Gears, Fibre

Pa., Bridgeport
Diamond State Fibre Co.

Generating Sets

N. Y., Schenectady
General Electric Co.

Generator Cooling Systems *(see Cooling Systems)*

Generators, A. C. Engine and Waterwheel Type

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Generators, Acetylene

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Oxweld Acetlyne Co., 36th St. and Jasper Pl.
Ia., Ottumwa
Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.
Md., Baltimore
Milburn Co., Alexander, 1420-26 W. Baltimore St.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Welding Supply Co., 132 Nassau St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Generators, Chlorine

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Generators, D. C. Engine Type

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Generators, Electric

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Fairbanks-Morse & Co.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Minn., Minneapolis
Electric Machinery Co.
N. J., Ampere
Crocker-Wheeler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Sprague Electric Works, 527 W. 34th St.
Western Electric Co., Inc., 195 Broadway
N. Y., Schenectady
General Electric Co.

Generators, Electric—*cont.*

Ohio, Cincinnati
Jantz & Leist Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Ridgway
Ridgway Dynamo & Engine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Gas (*see Producers, Gas*)

Generators, Geared, Turbine-driven, Direct Current

N. J., Trenton
De Laval Steam Turbine Co.

Generators, Girvin High Tension Direct Current

N. Y., New York City
Research Corporation, 63 Wall St.

Generators, Hydrogen

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Hydrogen, Electrolytic

N. Y., Brooklyn
Johnson Co., John
N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Low Voltage

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Generators, Motor

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leitz Electric Co.
Ohio, Cleveland
Lincoln Electric Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Oxygen

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Md., Baltimore
Milburn Co., Alexander, 1420–28 W. Baltimore St.
N. J., Harrison
Shriver & Co., T., 842 Hamilton St.
N. Y., Brooklyn
Johnson Co., John
N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Generators, Oxygen, Electrolytic

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Steam

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Generators, Steam Acetylene

Md., Baltimore
Milburn Co., Alexander, 1420–28 W. Baltimore St.

Generators, Turbo, Electric

Conn., Hartford
Terry Steam Turbine Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Schenectady
General Electric Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Thermalene

Ill., Chicago Heights
Thermalene Co., 17th St. and Lowe Ave.

Generators, Wooden (*see Tanks, Wooden*)

Girders, Acid Proof, Stoneware

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Glass Blowing

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Laboratory Materials Co. 640 E. 71st St.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.
*Scientific Materials Co., 719 Forbes St.
Pa., Rochester
Fry Glass Co., H. C.

Glass Blowing Machinery

N. J., Bridgeton
Cox & Sons Co.

Glass Bottles *(see Glass, Chemists, Laboratory)*

Glass Bulbs

N. Y., Corning
Corning Glass Works
N. J., Millville
International Glass Co.
Ohio, Cleveland
Euclid Glass Division National Lamp Works of General Electric Co.
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.

Glass Cleaning Apparatus

Pa., Pittsburgh
Coal & Coke By-Products Co., 421 Wood St.

Glass Containers

N. J., Bridgeton
Cumberland Glass Mfg. Co.

Glass Enameled Apparatus

N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.

Glass, Ground

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Glass, Laboratory

Cal., San Francisco
Braun-Knecht-Heimann Co.
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
England, Birmingham
Belchers (Stanley) & Mason, Ltd., Church St.
Ill., Alton
Illinois Bottle Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Kimble-Durand Glass Co.
Laboratory Materials Co, 640 E. 71st St.
Ind., Alexandria
Lippincott Glass Co.
Mass., Boston
International Equipment Co., 352 Western Ave.
Mass., Sommerville
Union Glass Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Millville
International Glass Co.
Wheaton Co., T. C.
N. J., Newark
Hanovia Chemical & Mfg. Co.
Kimble-Durand Glass Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
N. Y., New York City
American Scientific Instrument Co., Inc., 50-56 John St.
*Eimer & Amend, 3d Ave., 18th to 19th St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Mine & Smelter Supply Co., 42 Broadway
Scientific Utilities Co., Inc., 84 E. 10th St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Wagner Glass Works, 965 E. 132d St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Will Corporation
Ohio, Columbus
Laboratory Supply Co., 41 E. Chestnut St.
Pa., Carbondale
Carbondale Instrument Co.
Pa., Philadelphia
Caloris Co., 2110 Alleghany Ave.
*Thomas Co., Arthur H., 238 Washington Sq.
Whitall-Tatum Co., 410 Race St.
Williams-Brown & Earle, Inc., 918 Chestnut St.
Pa., Pittsburgh
Macbeth Evans Glass Co.
Scientific Materials Co., 717 Forbes St.
Pa., Rochester
Fry Glass Co., H. C.

Glass, Optical

Mass., Southbridge
American Optical Co.
N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.

Glass Plants

Ill., Aurora
Stephens-Adamson Mfg. Co.

Glass, Prismatic

N. Y., New York City
Holophane Glass Co., Inc., 340 Madison Ave.

Glass Tubes and Cylinders (*see Glass, Chemists, Laboratory.*)

Glass Tubing (*see Glass, Chemists' Laboratory*)

Glass Wool

Ill., Chicago
Laboratory Materials Co., 640 E. 71st St.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Glasses, Exhaust

Ohio, Cambridge
Cambridge Glass Co.

Glasses, Safety

Pa., Reading
Hettinger, E. L., 2d and Washington Sts.

Glassine Paper

Pa., Bridgeport
Diamond State Fibre Co.

Glassware (*see Glass, Laboratory*)

Glassware, Chemical (*see also Glass, Chemist's, Laboratory*)

Ill., Alton
Illinois Bottle Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Glass Products Co., 2300 Warren Ave.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St
Laboratory Materials Co., 640 E. 71st St.
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
*Schaar & Co., 1025 S. State St.
Welch Mfg. Co., W. M., 1516 Orleans St.
Mass., Boston
International Equipment Co., 352 Western Ave.
*Knott Apparatus Co., L. E., Cambridge "A" Station
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. J., Newark
Hanovia Chemical & Mfg. Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
N. Y., New York City
Doniger & Co., 164 5th Ave.
*Eimer & Amend, 205-211 3d Ave.
Greiner Co., The Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Maris & Co., J. M., 40 Barclay St.
Watters Laboratories, Cons., 55 5th Ave.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Macbeth Evans Glass Co.
*Scientific Materials Co., 711-719 Forbes St.

Glassware, Graduated

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Kimble-Durand Glass Co., 402 W. Randolph St.
Mich., Ann Arbor
*Eberbach & Sons Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Greiner Co., Emil, 55 Fulton St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Glassware, Laboratory (*see Glassware, Chemical*)

Glassware, Scientific (*see also Glass, Chemists, Laboratory, Glassware, Chemical*)

Gloves, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Gloves, Asbestos

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Gloves, Rubber, Acid Proof

Mass., Andover
Tyer Rubber Co.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Akron
Goodrich Co., B. F.
Miller Rubber Co.
Star Rubber Co.
Ohio, Ashland
Faultless Rubber Co.
R. I., Providence
Davol Rubber Co.

Gloves, Sand Blast

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Cincinnati
Macleod Co., 2232-2236 Bogen St.

Glue Plants

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.

Gluing Machines

Ohio, Cleveland
Union Engineering Co., 1616 Columbus Rd.

Glycerine Machinery

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Devine Co., J. P.

Glycerine Recovery Apparatus

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.

Glycerine Refining Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Brooklyn
Johnson Co., John
N. Y., Buffalo
Devine Co., J. P.

Goggles, Gas Tight

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Goggles, Industrial

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Hayward & Co., S. F., 250 W. 54th St.

Goggles, Rubber (Fume Proof)

Ind., South Bend
Cover, H. S., P. O. Box 404

Gooch Filters (*see Filters, Gooch*)

Governors, Air

Ill., Quincy
Gardner Governor Co.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Governors, Feed Water

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Governors, Gas

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Ohio, Cleveland
Gas Machinery Co.

Governors, Pressure

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Pa., Erie
Jarecki Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Governors, Pump

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Pa., Philadelphia
Houghton & Co., E. F., 238 W. Somerset St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Graders, Ditches

Minn., Mankato
Mayer Bros. Co., 198 Rock St.

Graduate Blanks

Ohio, Cambridge
Cambridge Glass Co.

Graduate Engraved

Ohio, Cambridge
Cambridge Glass Co.

Graduate Pressed Lines

Ohio, Cambridge
Cambridge Glass Co.

Graduates

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Graduates, Conical (*see Cylinders, Glass, Graduates*)

Graduates, Glass

Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.

Grain Cleaning Machinery

Ill., Moline
Barnard & Sons Mfg. Co.
Wis., Milwaukee
American Machinery & Construction Co.

Grain Handling Plants

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Columbus
Jeffrey Mfg. Co.

Granulating Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Stokes Machine Co., F. J.

Graphite, Flake and Powdered

Cal., San Francisco
*Dill-Crossett, Inc.
Mich., Saginaw
U. S. Graphite Co.
N. J., Asbury, Warren County
Asbury Graphite Mills
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Graphite Products (*see also Graphite, Flake and Powdered*)

N. J., Jersey City
Dixon Crucible Co., Joseph

Grates, Dumping

Md., Baltimore
Bartlett-Hayward Co.
N. Y., New York City
Washburn & Granger, 50 Church St.
Pa., Chester
Wetherill & Bro., Robert
Pa., Fullerton
Fuller-Lehigh Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keeler Co., E.
Valley Iron Works

Grates, Shaking (*see Grates, Dumping*)

Grates, Stoneware

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Gravitometers

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.

Grids, Tower, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Grinders, Cylindrical

Ind., Indianapolis
Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Dye

Ill., Chicago
Kaestner & Hecht, Harrison and Throop Sts.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Plouff Co., 1558 River St., Hyde Park
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Abbé, Paul O., 30 Church St.
Abbé Engineering Co., 220 Broadway
Sowers Mfg. Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Cincinnati
Day Co., J. H.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.
Philadelphia Textile Machinery Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Grinders, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mass., Worcester
Forbes & Myers
N. Y., New York City
Ingersoll-Rand Co., 113 Broadway
Niles-Bement-Pond Co., 111 Broadway
N. Y., Schenectady
General Electric Co.

Grinders, Internal

Ind., Indianapolis
Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Laboratory

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Stroud Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th St.
Palo Co., 90-92 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Grinders, Ore

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., Buffalo
Devine Co., J. P., 1366 Clinton St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
*Eimer & Amend, 3d Ave., 18th to 19th St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cincinnati
Day Co., J. H.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Grinders, Paint *(see Grinders, Dye)*

Grinders, Plain

Ind., Indianapolis
Ott Grinder Co., 217-223 W. Tenth St.

Grinders, Sample Ore *(see also Grinders, Ore)*

Colo., Denver
Colorado Iron Works Co.
Mass., Boston
Sturtevant Mill Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.

Grinders, Universal

Ind., Indianapolis
Ott Grinder Co., 217–223 W. Tenth St.

Grinders, Wood Pulp

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Carthage
Carthage Machine Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway

Grinding Machinery

Cal., Los Angeles
Lane Mill & Machinery Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Kaestner & Throop, Harrison and Throop Sts.
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ind., Indianapolis
Atkins & Co., E. C.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., Fitchburg
Universal Grinding Machine Co.
Mass., Greenfield
Greenfield Tape & Die Corporation
Mass., Worcester
Forbes & Myers
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Trenton
Crossley Machine Co.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Hardinge Conical Mill Co., 120 Broadway
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Provost Engineering Corp., 220 Broadway
*Palo Co., 90-92 Maiden Lane
Niles-Bement-Pond Co., 111 Broadway
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Waynesboro
Landis Tool Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Grinding Pans (*see Pans, Grinding*)

Grinding Wheels (*see Wheels, Grinding*)

Grizzleys

Colo., Denver
Colorado Iron Works Co.

Guards, Column

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Guards, Machinery

Ill., Chicago
Ilg Electric Ventilating Co., 153–155 Whiting St.
Mich., Adrian
Page Steel & Wire Co.
Ohio, Cleveland
Tyler Co., W. S.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Guards, Propeller Fan

Ill., Chicago
Ilg Electric Ventilating Co.

Gum Apparatus

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Devine Co., J. P.

Gum Cleaning Apparatus

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Guns, Blast, Cement and Concrete

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Haemacytometers

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Haemoglobinometers

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Haemometers

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Hammers, Alloy

N. Y., New York City
U. S. Indestructible Gasket Co., 50 Church St.

Hammers, Babbitt

N. Y., New York City
Rebele, L. J., 50 Church St.

Hammers, Drop

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester St.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Alliance
Morgan Engineering Co.

Hammers, Pile

Mich., Bay City
Industrial Works
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Hammers, Pneumatic

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Minn., Mankato
Little Giant Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Hammers, Power

Minn., Mankato
Little Giant Co., 198 Rock St
N. Y., Brooklyn
Bliss Co., E. W., 17 John St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Alliance
Morgan Engineering Co.

Hammers, Steam

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Alliance
Morgan Engineering Co.

Hammers, Riveting, Clipping and Calking

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Hardener, Floor

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Hardening Treatment

N. J., Elizabeth
American Metal Treatment Co.

Hardness Measuring Instruments (*see also Scleroscopes*)

Hardware, Laboratory (*see Laboratory Apparatus and Equipment*)

Heads, Deep Well Power Pumping

Ill., Aurora
American Well Works

Heat Exchange Apparatus

Conn., Hartford
Whitlock Coil Pipe Co.

Heat Insulating Materials

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. J., Bloomfield
Condensite Co. of America

Heat Insulating Materials—*cont.*

N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
Celite Products Co., 11 Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., H. W., 41st St. and Madison Ave.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Lockland
Cavey Co., Philip
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Heat Insulation Cases

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Heat Regulating Systems *(see Heating and Ventilating Systems)*

Heat Transmission, Fluid

Mass., Boston
*Parks-Cramer Co.

Heat Treating

Conn., Bridgeport
Connecticut Metal Treating, 207 Knowlton Ave.
Conn., Danbury
Ball & Roller Bearing Co., Maple Ave.
Ind., Indianapolis
American Highspeed Chain Co., 401 S. Illinois Ave.
Mo., St. Louis
Laclede Steel Co.
N. J., Elizabeth
American Metal Treatment Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Heat Veils

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Heaters, Air *(see also Heating and Ventilating Apparatus)*

Ill., Chicago
Edison Electric Appliance Co., Inc.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
Western Electric Co., 195 Broadway
Worthington Pump & Machinery Corporation, 115 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Sharon
Petroleum Iron Works Co.

Heaters, Asphalt

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.
N. Y., Long Island City
Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.
Pa., Sharon
Petroleum Iron Works Co.
Wis., Milwaukee
Pressed Steel Tank Co.

Heaters, Closed Multi-pass

Pa., Philadelphia
Kestner Evaporator Co., 18th St. and Allegheny Ave.

Heaters, Electric

N. Y., Albany
Consolidated Car Heating Co.
N. Y., New York City
Palo Co., 90 Maiden Lane
Western Electric Co., 195 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Heaters, Electric, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 Kinzie St., W.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Heaters, Feed Water

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Ill., Kewanee
Kewanee Boiler Co.
Whitlock Coi Pipe Co.
Mich., Saginaw
Wickes Boiler Co.
N. J., Camden
Webster & Co., Warren
N. J., East Carteret
Wheeler Condenser & Engineering Co.

Heaters, Feed Water—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Improved Appliance Co. 415 Kent Ave.
N. Y., New York City
Griscom-Russell Co., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Dayton
Platt Iron Works Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Jenkintown
Hodges Water Still Co., Inc.
Pa., Philadelphia
Harrison Safety Boiler Works

Heaters, Gravel

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Heaters, Noiseless, Lead

Pa., Philadelphia
Schautte & Koerting Co., 12th and Thompson Sts.

Heaters, Oil

Mass., Boston
*Parks-Cramer Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Otto Metal Goods Corporation, W. H., 401 St. Paul's Ave.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Long Island City
Anthony Co., 138 West Ave.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Heaters, Portable

N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.

Heaters, Surface

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Heaters, Tar (*see Heaters, Asphalt*)

Heaters, Tire

N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.

Heaters, Tubular

Conn., Hartford
Whitlock Coil Pipe Co.

Heaters, Water

Ill., Chicago
American Radiator Co.
Mich., Detroit
U. S. Radiator Corporation
Mich., Muskegon
Muskegon Boiler Works
Mich., Saginaw
Wickes Bros.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Rose Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Philadelphia
Harrison Safety Boiler Works, 17th and Alleghany Sts.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B.

Heating Apparatus, Laboratory

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Heating Appliances, Electric

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.
N. Y., Schenectady
General Electric Co.

Heating and Ventilating Apparatus

Ia., Marshalltown
Dunham Co., C. A.
Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Gurney Heater Mfg. Co., 200 Franklin St.
*Parks-Cramer Co.
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Camden
Webster & Co., Warren
N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.
Improved Appliance Co., 413-419 Kent Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.

Heating and Ventilating Apparatus—*cont.*

R. I., Providence
General Fire Extinguisher Co.
Pa., Philadelphia
Braemer Air Conditioning Co., La-Fayette Bldg.

Heating Devices

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg.

Heating Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Heating Machines, Continuous

N. Y., New York City
American Gas Furnace Co., 24 John St.

Heating Systems

Mass., Boston
*Parks-Cramer Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Heating Systems, High Temperatures

Mass., Boston
Parks-Cramer Co.

Helmets, Fume

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Helmets, Gas

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.

Helmets, Smoke

Ill., Chicago
*Elmer, H. N., 53 W. Jackson Blvd.
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.

Hoists, Air

Ill., Aurora
Barber-Greene Co.
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
International Process Co., 5 Beekman St.
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Hoists, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
N. Y., New York City
Sprague Electric Works, 527-531 W. 34th St.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Holders, Bottle

Mass., Worcester
National Mfg. Co.
N. Y., Brooklyn
New York Stamping Co., N. 11th and Berry Sts.
N. Y., Buffalo
Aldrich Mfg. Co., 55 Illinois St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
N. Y., New York City
Estey Wire Works Co., 59 Fulton St.
Pa., York
Foreman Systems

Hoods, Acid

Ill., Chicago
Ilg Electric Ventilating Co.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Hoods, Laboratory, Fireproof

N. Y., Jamestown
Dahlstrom Metallic Door Co., 10 Blackstone Ave.

Hoops, Iron, for Wood Tanks

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.

Hoppers, Steel

Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th and Stewart Ave.
N. J., Garwood
Beckley Perforating Co., North Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Standard Tank Co., 15 Park Row
Stevens Bros., Singer Bldg.
Ohio, Alliance
Reeves Bros. Co.
Ohio, Cleveland
Lakewood Engineering Co.
Ohio, Leetonia
Leetonia Boiler Works

Hose, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
Fairbanks-Morse & Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. J., Trenton
Acme Rubber Mfg. Co.
N. Y., Buffalo
Hewitt Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
New York Rubber Co., 84 Reade St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F., S. Main St.
Goodyear Tire & Rubber Co.
Ohio, Cincinnati
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood
Ohio, Youngstown
Republic Rubber Co.
Pa., Erie
Continental Rubber Works
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Levick & Sons Co., 106 S. 13th St.

Hose, Air

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co.
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.

Hose, Armored

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Pa., Philadelphia
Quaker City Rubber Co.

Hose, Braided

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Chemical (*see Hose, Acid*)

Hose, Fire

Mass., Cambridge
Boston Belting Corporation, 110 Summer St.
Boston Woven Hose & Rubber Co.
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co.

Hose, Gas

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co.

Hose, Hot Water

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co.

Hose, Hydraulic

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co.

Hose, Oil

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co.

Hose, Rubber (*see Hose, Acid*)

Hose, Sand Blast

Mass., Chelsea
Revere Rubber Co.
N. J., Trenton
Home Rubber Co.
N. Y., Buffalo
Hewitt Rubber Co.
Pa., Erie
Continental Rubber Works

Humidifiers (*see also Air Conditioning Apparatus; Air Moistening Apparatus*)

Ill., Chicago
Drying Systems, Inc., 320 N. Michigan Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mass., Fitchburg
Parks Co., G. M.
Mich., Detroit
American Blower Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Greeff Engineering & Mfg. Co., 36 Spring St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Co., 39 Cortlandt St.
Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.
R. I., Providence
Tillotson Humidifier Co.

Humidifying Apparatus (*see Humidifiers*)

Humidity Control (*see also Humidifiers*)

N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.
Va., Richmond
Richmond Engineering Co., 12 S. 8th St.

Hydrants, Fire

Ill., Chicago
Aermotor Co., Campbell Ave., S.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., Seneca Falls
Goulds Mfg. Co.

Hydrated Lime Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Hydraulic Machinery (*see Specific Headings*)

Hydrochloric Acid Cooling and Absorption Systems (*see Cooling Systems; Absorption Systems*)

Hydrogen

Ind., Fort Wayne
Western Gas Construction Co.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Electrolytic-Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.
Pennsylvania Salt Mfg. Co., Wiedner Bldg.

Hydrogen Peroxide Plants

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Hydrogen Plants

N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
Improved Equipment Co., 60 Wall St.
Linde Air Products Co., 42d St. Bldg.

Hydrogen Testing Apparatus

N. Y., New York City
International Oxygen Co., 115 Broadway

Hydrogenation Equipment

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

Hydrometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Laboratory Materials Co., 640 E. 71st St.
Republic Flow Meters Co., 565 Washington Blvd.

Hydrometers—*cont.*

Ill., Chicago—cont.
Schaar & Co., 1025 S. State St.
Wagner, Carl H., 1944 N. Albany Ave.
N. J., Rutherford
Becton Dickinson Co.
N. Y., Brooklyn
Berg Mfg. Co., James, 3707 12th Ave.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
American Scientific Instrument Co., Inc., 50-56 John St.
*American Thermo-Ware Co., 16 Warren St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Greiner Co., The Emil, Fulton and Cliff Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90-92 Maiden Lane
Scientific Utilities Co., Inc., 84 E. 10th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
Will Corporation
Ohio, Columbus
*Laboratory Supply Co.
Pa., Carbondale
Carbondale Calcium Co.
Griebel Instrument Co.
Pa., Philadelphia
Philadelphia Thermometer Co., 9th and Arch Sts.
Queen-Gray Co., 616-20 Chestnut St.
*Thomas Co., Arthur H., W. Washington Sq.

Hydroquinone Apparatus

N. Y., Buffalo
Devine Co., J. P.

Hygrometers

Conn., Waterbury
Bristol Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
*Green, Henry J., 1191 Bedford Ave.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Hypochlorite Plants

N. Y., New York City
Industrial Filtration Corp., 115 Broadway
New York Continental Jewell Filtration Co., 15 Broad St.

Ice Making Machinery (*see Refrigeration Machinery*)

Ice Manufacturers' Supplies

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Ice Plants (*see Refrigerating Machinery*)

Ignition Apparatus

Ill., Chicago
Accurate Engineering Co.
Mass., Springfield
Witherbee Igniter Co.
N. Y., New York City
Bosch Magneto Co., 223-225 W. 46th St.

Ignition Metal

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Illumination, Scientific

N. Y., New York City
Holophane Glass Co., Inc., 340 Madison Ave.

Imbedding Materials

Ill., Chicago
*Physicians Laboratory Supply Co. 119-121 N. Wabash Ave.

Impregnating Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Koven & Bro., L. O., 50 Church St.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Incinerators

Mass., Fall River
Scott & Co., Ernest
Minn., Minneapolis
Decarie Incinerator Co.

Incinerators—*cont.*

N. Y., New York City
Washburn & Granger, 50 Church St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Inclinator, Union Carboy

Minn., Minneapolis
McCord & Co., Inc., Horace M., 1013 Lumber Exchange

Incubators

Cal., San Francisco
Braun-Knecht-Heimann, 560 Mission St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Scientific Utilities Co., Inc., 84 E. 10th St.
Watters Laboratories, Cons., 55 5th Ave.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
*Thomas Co., Arthur H., W. Washington Sq.

Incubators, Bacteriological

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Incubators, Compartment

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Incubators, Electric

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.
N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.
N. Y., New York City
*Scientific Utilities Co., Inc., 84 E. 10th St.

Indicating Instruments (*see Indicators*)

Indicator Fittings and Supplies

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co., 40 Central St.

Indicator Posts

Conn., Hartford
Pratt & Cady Co., Inc.
Mich., Detroit
Stephens Mfg. Co., Roe
N. Y., Elmira
Kennedy Valve Mfg. Co.

Indicators, Ammonia

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
Pa., Corry
Trill Indicator Co.
Pa., Philadelphia
Brown Instrument Co.

Indicators, Carbon Dioxide

Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.
N. Y., Brooklyn
Tagliabue Co., J. C., 18-88 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.
Thwing Instrument Co.

Indicators, Gas

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Corry
Trill Indicator Co.
Pa., Philadelphia
Brown Instrument Co.

Indicators, Oil

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Corry
Trill Indicator Co.

Indicators, Speed

Conn., Bristol
Root Co., C. J., 150 Bridge St.
Conn., Hartford
Veeder Mfg. Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Electric Tachometer Corp., Perry Bldg.

Indicators, Steam

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Corry
Trill Indicator Co.

Indicators, Tank Depth

Pa., Philadelphia
Quimby Engineering Co., 450 N. 10th St.

Industrial Equipment (*see Specific Headings*)

Industrial Heating Process (*see Heat Transmission Fluid*)

Industrial Plants (*see Specific Headings*)

Injectors

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mich., Detroit
American Injector Co.
Penberthy Injector Co.
N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Ohio, East Akron
Knight, Maurice A.
Ohio, Urbana
Desmond-Stephan Mfg. Co.
Ohio, Wadsworth
Ohio Injector Co., S. Main St.
Pa., Erie
Watson, N. A., 2016 State St.
Pa., Philadelphia
Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
Rue Mfg. Co., 228 Cherry St.
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Injectors for Acid and Gases

Ohio, East Akron
Knight, Maurice A.

Instruments (*see Specific Heading*)

Insulating Compound Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Insulation, Cork

N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Insulation, Electrical

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.
Mass., Boston
Revere Rubber Co.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
General Bakelite Co., 2 Rector St.
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Mechanical Rubber Co., 73 Rector St.
N. Y., Schenectady
General Electric Co.

Insulation Materials

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Delaware Hard Fibre Co.
Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.
Mass., Boston
Cabot, Inc., Samuel, 143 Milk St.
Revere Rubber Co.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
American Hard Rubber Co.
N. Y., New York City
American Mica Co.
Celite Products Co., 11 Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st St.
N. Y., Schenectady
General Electric Co.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Insulation Materials, Thermal

N. Y., New York City
Celite Products Co., 11 Broadway

Insulators, Electrical

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22nd St.

Intermediates, Plants for

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Iron and Steel Analysis Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Irrigation Systems

Mass., Boston
Spray Engineering Co., 93 Federal St.

Isinglass

Ill., Chicago
Armour Glue Co.
N. Y., New York City
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Schwenker, Inc., W. M., 340-344 E. 92d St.

Jacketed Apparatus

N. Y., New York City
Van Emden Co., H., 145 W. 45th St.

Jackets, Cast Iron

Colo., Denver
Colorado Iron Works Co.

Jackets, Steel

Colo., Denver
Colorado Iron Works Co.

Jackets, Tap

Colo., Denver
Colorado Iron Works Co.

Jackets, Water

Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Jars, Acid Proof

Ill., Monmouth
Western Stoneware Co.
Ill., White Hall
Ruckel & Son, A. D.
Ky., Louisville
Louisville Pottery Co., Floyd and Bloom Sts.
Ky., Paducah
Paducah Pottery Co.
N. J., New Brunswick
Green, A.
N. J., Trenton
Maddock & Son, John

Jars, Acid Proof—*cont.*

N. Y., Corning
Corning Glass Works
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Robinson Clay Products Co., of New York, Fuller Bldg.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.
Ohio, Logan
Logan Pottery Co.
Pa., New Brighton
Sherwood Bros. Co.

Jars, Acid Storage (*see Jars, Acid Proof*)

Jars, Battery

N. J., Millville
International Glass Works
N. Y., Corning
Corning Glass Works
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Cambridge
Cambridge Glass Co.
Pa., Philadelphia
Whitall-Tatum Co.

Jars, Bleaching

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Jars, Chemical Stoneware (*see Jars, Acid Proof*)

Jars, Decanting

N. Y., Rochester
Will Corporation

Jars, Desiccating

Ohio, Cambridge
Cambridge Glass Co.

Jars, Dipping, Acid Proof (*see Jars, Acid Proof*)

Jars, Galvanizing, Acid Proof

Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Jars, Glass (*see Glass, Chemists, Glassware, Chemical*)

Jars, Hydrometer

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Jars, Leyden (Pyrex Glass)

N. Y., Corning
Corning Glass Works

Jars, Milk Test

Ohio, Cambridge
Cambridge Glass Co.

Jars, Percolating

Ohio, Cambridge
Cambridge Glass Co.

Jars, Precipitating

Ohio, Cambridge
Cambridge Glass Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Jars, Primary and Storage Battery

N. Y., New York City
Corning Glass Works

Jars, Specie

N. Y., Rochester
Will Corporation

Jars, Specimen

Ohio, Cambridge
Cambridge Glass Co.

Jars, Staining

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Jars, Storage, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Graham Chemical Pottery Works
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Jars, Vacuum

Conn., New Britain
Landers, Frary & Clark
N. J., Belleville
Bartlett Vacuum Jar Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Vacuum Specialty Co., 624 1st Ave.
Ohio, Akron
U. S. Stoneware Co.

Jets, Acid Proof

N. J. Newark
Acid Proof Iron Products Co., Inc.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.

Jigs

Cal., San Francisco
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Mine & Smelter Supply Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
N. Y., New York City
Worthington Pump & Machinery Corporation, 115 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Jugs, Acid Proof

Ohio, East Akron
Knight, Maurice A.

Jugs, Mercury, Stone

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U S. Stoneware Co.

Junctions, Acid Proof

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Kegs, Steel

N. Y., New York City
American Can Co., 120 Broadway
Pa., Sharon
Petroleum Iron Works Co.

Kegs, Wood

Md., Baltimore
Baltimore Cooperage Co.
N. H., Nashua
Procter Bros. & Co., Marshall St.
N. Y., Niagara Falls
International Cooperage Co., Inc., Erie Ave. and 9th St.

Kettles, Acid Resistant

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Buffalo Foundry & Machinery Co.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.
Pa., Williamsport
Valley Iron Works
Wis., Manitowoc
Manitowoc Engineering Works

Kettles, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
United States Cast Iron, Pipe & Foundry Co.

Kettles, Cast Iron—*cont.*

N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Buffalo Steam Pump Co.
Sowers Mfg. Co.
Devine Co., J. P., 1380 Clinton St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lead Co., 111 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
U. S. Stoneware Co.
Weeks, A. J.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2225 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Pa., Williamsport
Valley Iron Works

Kettles, Caustic Soda

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lined Tube & Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Copper

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
Pa., Philadelphia
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Morris Sts.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Buffalo
Devine Co., J. P.
N. Y., New York City
Roos' Sons, August, 429 E. 91st St.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.
Pa., Fullerton
Fuller-Lehigh Co.

Kettles, Desilverizing

Colo., Denver
Colorado Iron Works Co.
N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
Pa., Fullerton
Fuller-Lehigh Co.

Kettles, Distilling

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Kettles, Drossing

Colo., Denver
Colorado Iron Works Co.

Kettles, Dy

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co..
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St., and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Enameled

Ill., Batavia
Sperry & Co., D. R.
N. Y., Rochester
Pfaudler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Ohio, Elyria
Elyria Enameled Products Co.

Kettles, Fusion

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co.
Pa., Fullerton
Fuller-Lehigh Co.

Kettles, Lead Lined

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
Mott Iron Works, John, 118 Fifth Ave.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Elyria
Elyria Enameled Products Co.

Kettles, Mixing *(see Specific Headings)*

Kettles, Nitrating

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.

Kettles, Nitrating—*cont.*

N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
U. S. Stoneware Co.
Weeks, A. J.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Paint *(see Kettles, Varnish)*

Kettles, Phenol

N. Y., Buffalo
Devine Co., J. P.

Kettles, Potash *(see Kettles, Caustic Soda)*

Kettles, Reduction

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Buffalo Foundry & Forge Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
U. S. Stoneware Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Spun Brass, Seamless

Conn., Waterbury
Randolph-Clowes Co., The

Kettles, Steaming

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Kettles, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Detroit
Colton Co., Arthur
Detroit Heating & Lighting Co.
Mich., Saginaw
Wickes Boiler Co.
Mich., Muskegon
Muskegon Boiler Works
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Kettles, Steam Jacketed—*cont.*

N. J., Newark
Acid Proof Iron Products Co., Inc.
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Farrar & Trefts, Inc.
Sowers Mfg. Co., 1298-1310 Niagara St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Kettles, Sulphonating

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Tar

Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Mich., Saginaw
Wickes Boiler Co.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Kettles, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Varnish (Welded)

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., 75 Pitts St.
N. Y., Buffalo
Sowers Mfg. Co.
Pa., Carbondale
American Welding Co.

Kettles, Water Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Kilns, Cement

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Aero Pulverizer Co., 120 Broadway
Gerdes & Co., Inc., 40 Church St.
Ohio, Alliance
Reeves Bros. Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
Sterrit-Thomas Foundry Co., 32d and Smallman Sts.

Kilns, Dry

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.
Pa., Chester
Wetherill & Co., Robert
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Kilns, Lime

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Aero Pulverizer Co., 120 Broadway
Gerdes & Co., Inc., 40 Church St.
Improved Equipment Co., 60 Wall St.
Pa., Coatesville
Coatesville Boiler Works
Pa., York
Steacy-Schmidt Mfg. Co.

Kilns, Rotary

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
American Process Co., 68 William St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Kjeldahl Apparatus (*see Laboratory Apparatus and Equipment*)

Kneading Machines

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cincinnati
Day & Co., J. H., 1142 Harrison Ave.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Kneaders, Vacuum

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Labels

Mass., Framingham
Dennison Mfg. Co.

Labels, Gummed Paper

Mass., Framingham
Dennison Mfg. Co.

Laboratory Apparatus and Equipment (*see also Apparatus*)

Cal., Berkeley
University Apparatus Co., 2229 McGee Ave.
Cal., San Francisco
Braun Corp., The, 363-371 New High St.
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Laboratory Materials Co., 7404 Calumet Ave.
Sargent & Co., E. H., 155-165 E. Superior St.
Schaar & Co., 1025 S. State St.
Stoelting Co., C. H., 3045 Carroll Ave.
Welch Mfg. Co., W. M., 1516 Orleans St.
Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E. and W. St.
Mass., Boston
International Equipment Co., 352 Western Ave.
Knott Apparatus Co., L. E.
Mahady Co., E. F.

Laboratory Apparatus and Equipment—*cont.*

Mass., Worcester
Norton Co.
Md., Woodlawn
Powhatan Mining Co.
Mich., Ann Arbor
Eberbach & Son Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Millville
International Glass Co.
N. J., Newark
Baker & Co., Inc.
Hanovia Chemical & Mfg. Co.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Doniger & Co., 164 5th Ave.
Duriron Castings Co., 90 West St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Greiner Co., Emil, 55 Fulton St.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-94 Maiden Lane
Scientific Equipment Co., 70 5th Ave.
Standard Scientific Co., 147-152 Waverly Pl.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Castle, Wilmot Co., 800 St. Paul St.
Pfaudler Co., The
Will Corporation
Oregon, Portland
Woodward, Clark & Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
Boekel & Co., Wm.
Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
Laboratory Apparatus Co.
Macbeth-Evans Glass Co.
Scientific Materials Co., 711-719 Forbes St.
Pa., Rochester
Fry Glass Co., H. C.
Wis., Kewanee
Kewanee Mfg. Co.

Laboratory Furniture (*see also Specific Headings*)

Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Palo Co., 90 Maiden Lane
*Scientific Equipment Co., 70 5th Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 719 Forbes St.
Wis., Kewaunee
Kewaunee Mfg. Co.

Laboratory Gas Machines

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Laboratory Instruments (*see Chemical Apparatus, Laboratory Apparatus and Equipment*)

Laboratory Ware (*see Laboratory Apparatus and Equipment*)

Laboratory Water and Gas Fixtures

Mass., Boston
Knott Apparatus Co., L. E., Cambridge "A" Station

Ladles

Colo., Denver
Colorado Iron Works Co.
Ill., Harvey
Whiting Foundry Equipment Co.
Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Midland
Treadwell Construction Co.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.

Lamps, Acetylene

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.

Lamps, Alcohol

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Aluminum Goods Mfg. Co., 30 Church St.
Houchin Co., Thos. W., 38 E. 21st St.
Thurnauer & Bro., G. M., 83 Worth St.
Ohio, Cambridge
Cambridge Glass Co.

Lamps, Daylight

N. Y., New York City
Palo Co., 90 Maiden Lane

Lamps, Electric

N. J., Hoboken
Cooper Hewitt Electric Co., 8th and Grand Sts.
N. Y., Schenectady
General Electric Co.
Pa., Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, Laboratory

N. J., Hoboken
Cooper-Hewitt Electric Co., 8th and Grand Sts.
Ohio, Cleveland
Dangler Stove Co., 5017 Perkins Ave.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, Mazda

N. Y., Schenectady
General Electric Co.

Lamps, Pentane

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.

Lamps, Quartz, Mercury Arc

N. J., Hoboken
Cooper-Hewitt Electric Co., 8th and Grand Sts.
N. J., Newark
Hanovia Chemical & Mfg. Co.
N. Y., New York City
*Engelhard, Chas., 30 Church St.
R. U. V. Co., 120 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, Quartz, Ultra-Violet Light (*see Lamps, Quartz, Mercury Arc*)

Lamps, Gasoline

Ohio, Canton
Sun Vapor & Street Light Co.

Lanterns, Acetylene

Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Lanterns, Electric

N. Y., Schenectady
General Electric Co.

Lanterns, Projection

N. Y., Buffalo
Spencer Lens Co.
N. Y., Rochester
Bausch & Lomb Optical Co.

Laths, Expanded Metal

Mich., Detroit
Trussed Concrete Steel Co.
Ohio, Canton
Berger Mfg. Co.
Ohio, Youngstown
General Fireproofing Co.

Leaching Equipment

Colo., Denver
Colorado Iron Works Co.
Dorr Co., Cooper Bldg.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Me., Portland
Electron Chemical Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mass., Springfield
Green Co., Samuel M.

Leaching Equipment—*cont.*

N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
Johnson Co., John, 37th and 2d Aves.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Bldg.
N. Y., New York City
American Lead Burning Co., 30 Church St.
Dorr Co., The, 17 Battery Pl.
Electrolytic Engineering Corporation, 501 Fifth Ave.
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
General Ceramics Co., 50 Church St.
Industrial Filtration Corp., 115 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Roos' Son, August, 429 E. 91st St.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Rochester
Pfaudler Co., The
Ohio, East Akron
Knight, Maurice
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Lead Alloys, Packing

N. Y., New York City
Rebele, L. J., 50 Church St.

Lead Burners

Mass., Boston
McNamara, M., 171 Broadway
N. Y., Brooklyn
Abernethy John F., 703 Myrtle Ave.
N. Y., New York City
American Lead Burning Corp., 30 Church St.
Kalbperry Corporation, 31 Union Square, W.
Ohio, Cincinnati
Macleod Co., Bogen St.
Ohio, Columbus
Rudolph, Philip J., 190 W. 1st Ave.

Lead Burning Apparatus

Ill., Chicago
Oxweld Acetylene Co.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.

Lead, Packing

N. Y., New York City
Rebele, L. J., 50 Church St.

Lead Pencil Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Lead Pipe Machinery

N. Y., Brooklyn
Robertson & Co., John, 133 Water St.

Lead Sheet

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway

Lead Traps and Bends

N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.
United Lined Tube & Valve Co., 111 Broadway

Lead Wool

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway

Leather, Artificial

Del., Wilmington
Du Pont Fabrikoid Co.
N. J., Passaic
Pantasoto Leather Co.
Pa., Philadelphia
Endura Mfg. Co., 63d St. and Eastwick Ave.

Leather Belt Dressing, Liquid

N. Y., New York City
Du Pont Chemical Works, 120 Broadway
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Leather Chamois

Mass., Peabody
Clark Co., B.
N. J., Newark
Newark Chamois Co.
N. Y., Johnstown
Argensinger, Putnam & Co.
Pa., Great Bend
Black Horn Leather Co.

Leather, Flange

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Hydraulic and Valve

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Lace

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
National Leather Belting Co., Inc., 342 E. 38th St.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Leather Preservative

Mo., St. Louis
American Oleite Sales Co., 1404 N. Park Pl.

Leather, Protective

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Strapping

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Substitutes (*see Leather, Artificial*)

Lenses

Mass., Southbridge
American Optical Co.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Rochester
Fry Glass Co., H. C.

Lenses, Condensing

N. Y., Corning
Corning Glass Works

Levels

Colo., Denver
Ainsworth & Sons, Wm., 2153 Lawrence St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
Pa., Philadelphia
Queen-Gray Co., Inc., 618 Chestnut St.

Lids, Crucible (*see also Laboratory Apparatus and Equipment*)

Colo., Denver
Herold China & Pottery Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Lifts, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Pa., Philadelphia
Schutte & Koerting Co., 1251 N. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Lifts, Air Jet

Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Lifts, Liquid

Mass., Boston
Lummus Co., Walter E., 173 Milk St.

Lighting Equipment

Ind., Indianapolis
Presto-O-Lite Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. J., Hoboken
Cooper-Hewitt Electric Co.
N. Y., Schenectady
General Electric Co.

Lighting Units, Industrial

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lighting Units, Yard and Outdoor

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lime Slacking Equipment

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
N. Y., New York City
Dorr Co., 101 Park Ave.

Liners, Autoclaves

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Linings, Acid Proof

Ill., Chicago
Standard Asphalt & Refining Co., 208 S. La Salle St.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 128 Duane St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
Goodrich Co., B. F., S. Main St.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Linings, Ball Mill

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Linings, Brake, Cork Insert

Mass., Boston
Cork Insert Co., 164 Federal St.

Linings, Furnace

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
Mo., St. Louis
Laclede-Christy Clay Products Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Celite Products Co., 11 Broadway
N. Y., New York City
Acheson Graphite Co.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Lavine & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Basic Products Co., 2119 Oliver Bldg.

Linings, Lead

N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.

Linings, Metal

N. Y., New York City
Smidth & Co., F. L., 50 Church St.

Linings, Rubber

N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Linings, Silex

N. Y., New York City
Abbé, Paul O., 30 Broad St.
Smidth & Co., F. L., 50 Church St.

Linings, Tin, Pure

N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.

Linings, Tube Mill

Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Linoleum Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Liquid Chlorine Apparatus

N. Y., New York City
International Filtration Corp., 115 Broadway

Liquid Fuel Equipment

N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway

Lithopone Apparatus

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.

Loaders *(see Conveying Machinery; Conveying Systems)*

Lockers, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
Durand Steel Locker Co., 76 W. Monroe St.
Mass., Framingham
Manufacturing Equipment & Engraving Co.
Mo., St. Louis
Medart Mfg. Co., Fred, De Kalb and Potomac Sts.
Ohio, Cincinnati
Edwards Mfg. Co., 306-336 Eggleston Ave.
Pa., Philadelphia
Darby & Sons Co., Inc., Edward, 233-235 Arch St.
R. I., Providence
Narragansett Machine Co.

Locomotives, Mine and Industrial

Iowa, Davenport
Davenport Locomotive Works
N. Y., New York City
American Locomotive Works, 30 Church St.
Western Electric Co.
N. Y., Schenectady
General Electric Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Lima
Lima Locomotive Corporation
Ohio, Plymouth
Fate Co., J. D.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Philadelphia
Baldwin Locomotive Works

Locomotives, Storage Battery

Ohio, C'eveland
Lakewood Engineering Co., Station "G"

Locomotives, Trolley

Ohio, Cleveland
Lakewood Engineering Co., Station "G"
Pa., Philadelphia
Brill Co., J. G.

Logwood Extract Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Lubricators

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Crane Co.
Mass., Boston
Crosby Steam Gauge & Valve Mfg. Co.
Mich., Detroit
McCord Mfg. Co., 2587 E. Grand Blvd.
N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Erie
Jarecki Mfg. Co.

Lungmotor

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.

Macerating Machinery

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
Provost Engineering Corp., 220 Broadway

Machinery (*see Specific Headings*)

Machines (*see Specific Headings*)

Magnetic Equipment, Special

Wis., Milwaukee
Magnetic Mfg. Co., 764 Windlake Ave.

Magnetos

N. Y., New York City
Bosch Magneto Co., 223-225 W. 46th St.

Magnets, Electro

Ill., Chicago
Victor Electric Corporation, W. Jackson Blvd.
N. Y., New York City
Western Electric Co., 195 Broadway
Wis., Milwaukee
Dings Magnetic Separator Co., 671 Smith St.

Magnets, High Intensity

Wis., Milwaukee
Dings Magnetic Separator Co., 671 Smith St.

Magnets, Lifting

N. Y., Schenectady
General Electric Co.
Wis., Milwaukee
Cutler-Hammer Mfg. Co.
Dings-Electro Magnetic Separator Co.

Magnifiers

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Mailers, for Microscopic Slides

N. Y., New York City
Estes & Co., E. B., 362 5th Ave.

Malting Machinery

Ill., Chicago
Kaestner & Hecht Co.
Mo., St. Louis
Aufrichtig Cooper & Iron Works, 900 S. 3d St.
Wis., Watertown
Dornfield Iron Works

Mandrels

Ohio, Cleveland
Cleveland Twist Drill Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Manganese Dryers

N. Y., New York City
Lamson & Bro., John L., 80 Maiden Lane

Manhole Fittings

Pa., Coatesville
Lukens Iron & Steel Co.
Pa., Pottstown
Glasgow Iron Co.

Manifolds, Acid Proof

N. J., Newark
Acid Proof Iron Products Co., 41 Hermon St.
N. Y., New York City
DurironCastings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Manometers

Mich., Detroit
American Blower Co.
N. Y., New York City
Greiner & Co., Emil, Fulton and Cliff Sts.
Scientific Utilities Co., Inc., 84 E. 10th St.

Masks, Acid or Fume Proof

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Savings Devices Co.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Multi Metal Separating Screen Co., 255 W. 19th St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 1st Ave.

Masticators

Mich., Saginaw
Werner & Pfleiderer Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Matting, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cleveland
Mechanical Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Measures, Linear, Accurate

Conn., New Britain
Stanley Rule & Level Co.
N. J., Hoboken
Keuffel & Esser Co.
N. Y., Troy
Gurley, W. & L. E.

Measuring Instruments (*see Specific Headings*)

Measuring Machines, for Wire

Pa., Reading
Textile Machine Works
R. I., Providence
New England Butt Co.

Measuring and Mixing Machines

N. Y., New York City
Conveying Weigher Co., 90 West St.

Media, Culture

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wasbash Ave.

Metal Cloth (*see Cloth, Metal*)

Metallographic Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Palo Co., 92-94 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.
N. Y., Rochester
Bausch & Lomb Optical Co.

Metallurgical Apparatus (*see Specific Headings*)

Metal Testing Instruments

Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Metal Treating

N. J., Elizabeth
American Metal Treatment Co.

Metanitraniline Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Metaphenylenediamine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Metatoluylenediamine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Meteorological Instruments

N. Y., New York City
Standard Scientific Co., 147 Waverly Pl.

Meters, Air

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Sargent Steam Meter Co., 2835 Armitage Ave.
Mass., Boston
Bailey Meter Co., 141 Milk St.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Plainfield
New Jersey Meter Co.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Meters, Condensation

Mich., Detroit
Central Station Steam Co., 710 East Woodbridge St.

Meters, Electric (*see also Ammeters, Voltmeters, Wattmeters*)

Conn., Waterbury
Bristol Co.
N. J., Newark
Weston Electrical Instrument Co.
N. Y., New York City
Western Electric Co., 195 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G.
Brown Instrument Co.
Queen-Gray Co.
Pa., Pittsburgh
Westinghouse Electric & Mfg. Co.

Meters, Feed Boiler

N. Y., Buffalo
Buffalo Meter Co., 2917 Main St.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway

Meters, Feed Water

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Mich., Detroit
Central Station Steam Co., 710 E. Woodbridge St.
N. J., Camden
Webster & Co., Warren
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cincinnati
Cookson Steam Specialty Co., 60-62 Central Ave.

Meters, Flow

Conn., Waterbury
Bristol Co.
Mass., Boston
Spray Engineering Co., 93 Federal St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., Schenectady
General Electric Co.

Meters, Frequency

Conn., Waterbury
Bristol, Co.
Mass., Foxboro
Foxboro Co.
N. J., Newark
Weston Electrical Instrument Co.
Pa., Philadelphia
Thwing Instrument Co.

Meters, Gas

Ind., Ft. Wayne
Bowser Co., S. F.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. Y., Buffalo
Buffalo Meter Co., 2917 Main St.
N. Y., New York City
American Meter Co., 105 W. 40th St.
Worthington Pump & Machinery Corp., 113 Broadway

Meters, Laboratory Voltage

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Meters, Measuring Type

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Meters, Oil *(see also Meters, Gasoline)*

Ind., Ft. Wayne
Bowser & Co., Inc., S. F.
N. Y., Buffalo
Buffalo Meter Co., 2917 Main St.
N. Y., New York City
American Meter Co., 105 W. 40th St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Philadelphia
Harrison Safety Boiler Works
Wis., Milwaukee
Cutler-Hammer Mfg. Co.

Meters, Pitot Tube

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
La., New Orleans
Lockett & Co., Ltd., A. M.

Meters, Steam

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Mass., Boston
Bailey Meter Co., 141 Milk St.
N. Y., North Tonawanda
American District Steam Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Meters, Water

Mass., Foxboro
Foxboro Co., Inc.
Mass., South Boston
Hersey Mfg. Co.
Mass., Worcester
Union Water Meter Co., 41 Harmon St.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. J., Newark
Gamon Meter Co., 282-296 South St.
N. Y., Buffalo
Buffalo Meter Co., 2917 Main St.
N. Y., New York City
American Meter Co., 105 W. 40th St.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Metronomes

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Microammeters

N. Y., New York City
Engelhard, Chas., 30 Church St.

Micrometers

Mass., Ashburnham
Almond Mfg. Co., T. R.
Mass., Athol
Starrell Co., L. S.
N. Y., Syracuse
Syracuse Twist Drill Co.

Microphotographic Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Microscopes

Ill., Chicago
*Daigger & Co., A., 52 W. Kinzie St.
*Gaertner & Co., Wm., 5345 Lake Park Ave.
*Sargent & Co., E. H., 125 W. Lake St.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 211 3d Ave.
King Optical Co., Julius, 10 Maiden Lane
*Palo Co., 90 Maiden Lane
*Scientific Equipment Co., 70 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Will Corporation
Ohio, Columbus
*Laboratory Supply Co.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Microscopes, Reading

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Microscopical Apparatus

Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Microtomes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Leitz, Ernest, 30 E. 18th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Milk Bottlers' Machinery (*see Dairy Machinery*)

Milk Can Washing Machines (*see Dairy Machinery*)

Milk Drying Machinery

N. Y., Syracuse
Merrell-Soule Co.

Milk Powder Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Milk Sugar Apparatus

N. Y., Buffalo
Devine Co., J. P.

Milk Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Milling Machines

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Millivoltmeters

N. Y., New York City
Engelhard, Chas., 30 Church St.

Mills, Assay

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., Equitable Bldg.
Beach-Russ Co., 220 Broadway
Pa., Catasauqua
Lehigh Car Wheel & Axle Works

Mills, Attrition

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbé, Paul., 30 Broad St.

Mills, Ball

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbé, Paul O., 30 Broad St.
Beach-Russ Co., 220 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Hardinge Conical Mill Co., 120 Broadway
Van Emden Co., H., 145 W. 45th St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
*Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Boring and Turning, Vertical

Wis., Madison
Gisholt Machine Co.

Mills, Buhr

Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Eliott, Inc.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Mills, Cage

N. Y., New York City
Abbé, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
Pa., Muncy
Sprout, Waldron & Co

Mills, Chilian

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago Heights
Chalmers & Williams Inc.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills (Chilian) Slow Speed

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.

Mills, Cinder

N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway

Mills, Cogswell

N. Y., New York City
Brown Co., The A. & F., 79 Barclay St.

Mills, Color *(see Mills, Paint)*

Mills, Crushing

Cal., Los Angeles
Lane Mill & Machinery Co.
Colo., Denver
Mine & Smelter Supply Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co.
Raymond Brothers Impact Pulverizer Co., 1311 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ill., Chicago Heights
Chalmers & Williams, Inc.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Mill Co., Harrison Sq.
Mich., Detroit
Mead & Co., 19th St. and M. C. R. R.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbé, Paul O., 30 Broad St.
Aero Pulverizer Co., 120 Broadway
Buchanan Co., Inc., C. G., 90 West St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
N. Y., Utica
Munson Mill Machinery Co., Inc., 405 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow, C. O.

Mills, Crushing—*cont.*

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Catasauqua
Lehigh Car Wheel & Axle Works
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
*Thomas Co., Arthur H., W. Washington Sq.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Cyanide

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Chalmers & Williams, Inc.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Worthington Pump & Machinery Corporation
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Drug

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Mich., Saginaw
Werner & Pfleiderer, Inc.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Stokes Machine Co., J. H.
Whitall-Tatum Co.

Mills, Dye (*see Mills, Paint*)

Mills, Emery

Mass., Boston
Sturtevant Mill Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.

Mills, Graphite

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., Utica
Munson Mill Machinery Co., Inc., 405 Broadway

Mills, Grinding (*see Mills, Crushing*)

Mills, Hammer

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Beach-Russ Co., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Huntington

Ill., Chicago Heights
Chalmers & Williams, Inc.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Jar

N. Y., New York City
Abbé, Paul O., 30 Broad St.
Ohio, Cincinnati
Day Co., J. H., 1147-1149 Harrison Ave.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mills, Laboratory (*see Laboratory Apparatus and Equipment*)

Mills, Ore (*see Mills, Stamp*)

Mills, Paint

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., Brooklyn
Buchanan Co., C. G., 90 West St.
Moussette Co., O. J.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
K. B. Pulverizer Co., Inc., 86 Worth St.
Ohio, Cincinnati
Day Co., J. H., 1149 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.

Mills, Pebble (*see Mills, Ball*)

Mills, Pulverizing (*see Mills, Crushing*)

Mills, Quartz

Cal., Los Angeles
Lane Mill Machinery Co.
Llewellyn Iron Works
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Ring Roll

Mass., Boston
Sturtevant Mill Co.

Mills, Roller

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Pa., Muncy
Sprout, Waldron & Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Roller, with Air Separation

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.

Mills, Sampling (*see Mills, Stamp*)

Mills, Stamp

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Tube

Cal., San Francisco
Union Iron Works Co.
Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mineral Filler

N. Y., New York City
Celite Products Co., 11 Broadway
N. Y., Niagara Falls
Acheson Graphite Co.

Mineralogical Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52 W. Kinzie St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Mining Machinery

Cal., Los Angeles
Llewellyn Iron Works
Cal., Oakland
Union Iron Works
Cal., San Francisco
Price Pump & Engine Co., G. W., 33 Stevenson St.
Union Iron Works Co., 214 Spear St.
Colo., Denver
Colorado Iron Works Co.
Dorr Co., 1009 17th St.
Mine & Smelter Supply Co.
Ill., Chicago
Goodman Mfg. Co., Halstead St. and 48th Pl.
Link-Belt Co., W. 39th St. and Stewart Ave.
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., People's Gas Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mo., Springfield
Union Iron Works Co.
N. Y., New York City
Dorr Co., 101 Park Ave.
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway

Mining Machinery—*cont.*

Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mining Machinery, Electrical

Ill., Chicago
Goodman Mfg. Co., Halstead St. and 48th Pl.
Morgan-Gardner Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Mixers, Aniline Colors *(see Mixers, Colors)*

Mixers, Artifical Silk

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Asbestos Compounds

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Atmospheric

Ill., Rockford
Eclipse Fuel Engineering Co.

Mixers, Baking Powder

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Mixers, Batch

Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Ross & Sons Co., Charles, 146 Classon Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Brine Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mixers, Carbon

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Lockland
Gedge-Gray Co.

Mixers, Cement

Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. N.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Smith Co., T. L.

Mixers, Chemical

Colo., Denver
Colorado Iron Works Co.
Dorr Co., The
Mine & Smelter Supply Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J.
Mass., Boston
Badger & Sons Co., E. B., 63–75 Pitts St.
Holmes & Blanchard Co.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Muskegon
Muskegon Boiler Works, Eighth St.

Mixers, Chemical—*cont.*

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Brooklyn
Improved Appliance Co., 10 High St.
Houchin-Aiken Co., 113 53d St.
Johnson Co., John, 37th and 2d Ave.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbé, Paul O., 30 Broad St.
Dorr Co., 101 Park Ave.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Lungwith, Emil E., 90 West St.
N. Y., Rochester
Pfaudler Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Clay

Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Md., Baltimore
Poole Engineering & Machine Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Mixers, Color

Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Brown Co., The A. & F., 79 Barclay St.
Machinery Utilities Co., 501 5th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Concrete

Ill., Chicago
Fairbanks-Morse & Co., 900 S. Wabash Ave.
Mich., Jackson
Knickerbocker Co.
N. J., Dunellen
Ransome Concrete Machinery Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Lakewood Engineering Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Pittsburgh
Standard Scale & Supply Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.
Milwaukee Concrete Mixer Co.
Smith Co., T. L.

Mixers, Cork Compounds

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Crayon Compositions

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Crucible Paste

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Dry

Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Moussette Co., Inc., O. J., 26 Clay St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Pa., Pittsburgh
Standard Scale & Supply Co., 1631 Liberty Ave.

Mixers, Dye (*see Mixers, Color*)

Mixers, Dynamite

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Emery Compositions

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Fertilizer

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Md., Baltimore
Poole Engineering & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Mixers, Gas

Mich., Detroit
Detroit Heating & Lighting Co.
R. I., Providence
General Fire Extinguisher Co.

Mixers, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Mixers, Granulation

Mich., Detroit
Colton Co., Arthur

Mixers, Graphite

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Jacketed

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Kligerit

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Lead

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Mixers, Lime

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Linoleum

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

Mixers, Liquid

Del., Wilmington
Walker & Elliott, Inc.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Improved Appliance Co., 10 High St.
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Brown Co., The A. & F., 79 Barclay St.
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Mass

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Nitrocellulose

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Paint (*see Paint Machinery*)

Mixers, Paste

Mich. Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Pill Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Putty

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rotary

N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.

Mixers, Rubber

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rubber Cement

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rubber Solution

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Smokeless Powder

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co., 1298-1310 Niagara St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Storage Battery Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Tablet Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Tank

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N Y Rochester
Pfaudler Co.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Turbine

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Mixers, Vacuum

Mass., Fall River
Scott & Co., Ernest
Mich Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Abbé, Paul O., 30 Church St.

Mixers, Viscose

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St..

Mixers, Water

Mass., Framingham
Manufacturing Equipment & Engraving Co.

Moisteners (*see also Air Moistening Apparatus*)

Mass., Boston
Sturtevant Co., B. F.
Ohio, Cambridge
Cambridge Glass Co.

Moisture Regaining Equipment

N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.

Moisture Testers

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.

Molding Sheet Plastics

N. J., Bloomfield
Condensite Co. of America

Molds

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
N. Y., Niagara Falls
Acheson Graphite Co.
Pa., Erie
Continental Rubber Works

Monitors

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Montejus

Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Mortars

Ill., Chicago
Sperry & Co., D. R.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
N. Y., Rochester
Will Corporation
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Mortars, Tool Steel

Pa., Philadelphia
Stokes Machine Co., F. J.
Pa., Pittsburgh
*Scientific Materials Co., 711 Forbes St.

Motor Generator Sets

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Motors, Electric

Ill., Chicago
Fairbanks, Morse & Co.
Victor Electric Corporation, 236 S. Robey St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. J., Ampere
Crocker-Wheeler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Schnectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Triumph Electric Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Cutler-Hammer Co.

Moulds

Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Moulds, Bullion

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.

Moulds, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Moulds, Ingot

Colo., Denver
Colorado Iron Works Co.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Moulds, Matte

Colo., Denver
Colorado Iron Works Co.

Muffles

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
Mass., Worcester
Norton Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Newark
Baker & Co., Inc.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Carborundum Co.
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Muffles, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Muffles, Platinum

N. J., Newark
Bishop & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Muffles, Refractory

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Nail Machinery, Wire

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Naphtha Coal Tar Apparatus

(*see Naphthalene Plants*)

Naphthalene Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
Buffalo Foundry & Machine Co.
Johnson Co., John, 37th St. and 2d Ave.

Naphthalene Crystals Apparatus

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Johnson Co., John, 37th St. and 2d Ave.

Naphthalene Dinitro Apparatus

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Johnson Co., John, 37th St. and 2d Ave.

Naphthalene Mono and Bi-Nitro Apparatus

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Johnson Co., John, 37th St. and 2d Ave.

Naphthalene Mononitro Apparatus

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Naphthol, Beta, Plants

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Needles

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Netting

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Nigrosine Apparatus

N. Y., Buffalo
Devine Co., J. P.

Nitraniline, Para, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Nitrators

Mass., Boston
American Tool & Machine Co., 10 High St.
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Fletcher Works
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Nitrobenzol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
Kalbperry Corp., 31 Union Square, W.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Nitrocellulose Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Kalbperry Corp., 31 Union Sq., W.
N. Y., Rochester
Pfaudler Co., The

Nitrogen Determination Apparatus *(see Nitrometers)*

Nitroglycerin Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Nitrometers

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 41st St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Will Corporation
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.

Nitrotoluol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Nozzles, Acid

Ill., Chicago
Star Brass Works, 3114-22 Carroll Ave.
Mass., Boston
Callahan Co., C., 127 Purchase St.
N. Y., Buffalo
Buffalo Forge Co.
Carrier Air Conditioning Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hayward & Co., S. F., 39 Park Pl.
Ohio, Akron
U. S. Stoneware Co.

Nozzles, Aerating

Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
Pa., Philadelphia
Braemer Air Conditioning Corporation, LaFayette Bldg.

Nozzles, Atomizing

Ill., Chicago
Star Brass Works, 3114-3122 Carroll Ave.

Nozzles, Blast

N. Y., Buffalo
Buffalo Forge Co.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Nozzles, Fire

Mass., Boston
Morse & Son, Inc., Andrew J., 221 High St.

Nozzles, Graphite

Pa., Philadelphia
Seidel, Inc., R. B., 1322 Callowhill St.

Nozzles, Spray

Ill., Chicago
Star Brass Works, 3114-3120 Carroll Ave.
Mass., Boston
Spray Engineering Co., 93 Federal St.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
American Spray Co., 26 Cortlandt St.
Carrier Air Conditioning Co., 39 Cortlandt St.
Cooling Tower Co., Inc., 17 John St
Duriron Castings Co., 90 West St.
U. S. Rubber Co., 1790 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Philadelphia
Braemer Air Conditioning Corporation, LaFayette Bldg.
Fletcher Works
Schutte & Koerting Co., 12th and Thompson Sts.

Odometers

Conn., Hartford
Veeder Mfg. Co.
N. J., Hoboken
Keuffel & Esser Co.

Ohmmeters (*see Electric Measuring Instruments*)

Oil Bleaching Plants

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Oil Burning Equipment

Cal., San Francisco
Johnson Co., S. T., 1337 Mission St.
Ill., Chicago
National Supply Co., 416 W. Grand Ave.
La., New Orleans
Lockett & Co., Ltd., A. M.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway
Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Oil Filters (*see Filters, Oil*)

Oil Flotation Ore Dressing Machinery

Canada, Cobalt, Ontario
Groch Centrifugal Flotation, Ltd.

Oil Handling Devices

Ft. Wayne, Ind.
Bowser & Co., Inc., S. F.

Oil Refinery Equipment

Del., Wilmington
Pusey & Jones
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mo., St. Louis
Brecht Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Pittsburgh
Aluminum Co. of America
Pa., Sharon
Petroleum Iron Works Co.
Texas, Dallas
Murray Co.

Oil Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros., Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711 Forbes

Oilers, Engine, Machine

Conn., Branford
Malleable Iron Fittings Co.

Oilers, Gasoline Engine

Conn., Branford
Malleable Iron Fittings Co.

Oilers, Multiple Feed and Gravity

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Optical Instruments

Mass., Southbridge
American Optical Co.
N. Y., Rochester
Bausch & Lomb Optical Co.

Ore Machinery

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Mine & Smelter Supply Co.
Ill., Chicago Heights
Chalmers & Williams, Inc.
Ill., Chicago
Link-Belt Co.
N. Y., New York City
Dorr Co., 101 Park Ave.
Mine & Smelter Supply Co., Inc., 42 Broadway
Robins Conveying Belt Co., Park Row Bldg.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wellman-Seaver-Morgan Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ore Roasting Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
N. Y., New York City
General Chemical Co., 25 Broad St.
Kalpberry Corp., 31 W. Union Sq.
N. Y., Schenectady
General Electric Co.

Ore Separators

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.
Sturtevant Mill Co., Harrison Sq.
N. Y., Troy
Magnetic Separator Co.

Ore Washing Machinery

Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Dorr Co., 101 Park Ave.
Worthington Pump & Machinery Corp., 115 Broadway

Orsat Apparatus

Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.

Oven Machinery, Coke

Ohio, Cleveland
Wellman-Seaver-Morgan Co.

Ovens, Annealing

Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., Schenectady
General Electric Co.

Ovens, Baking

Ill., Chicago
*Central Scientific Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60-63 Franklin Ave.
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Ovens, By-Product Coke (*see Coke Ovens, Retort*)

Ovens, Constant Temperature, Freas Patents

N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Ovens, Core

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
Drying System Inc., 320 Michigan Ave.
*Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg.
Ill., Harvey
Whiting Foundry Equipment Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Garwood
Beckley Perforating Co., North Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., 60 Franklin Ave.
Improved Appliance Co., 413 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Gordon Dryer Corporation, 39 Cortlandt St.
Scientific Utilities Co., Inc., 84 E. 10th St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Philadelphia Textile Machinery Co.

Ovens, Despatch Electric

N. Y., New York City
Palo Co., 90 Maiden Lane

Ovens Draw Plate

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Ovens, Drying (*see Ovens, Core*)

Ovens, Drying, Water Bath

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Ovens, Electric, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.
Ill., Chicago
*Sargent & Co., E. H., 125-127 W. Lake St.
N. Y., New York City
Electric Heating Apparatus Co., 25 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
N. Y., Schenectady
*General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Ovens, Enameling

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Quigley Furnace Specialties Co., Inc., 25 Church St.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Quigley Furnace Specialties Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Ovens, Fuel Gas

N. Y., New York City
American Gas Furnace Co., 24 John St.
Connelly Iron Sponge & Governor Co., 228 Fulton St.
Quigley Furnace Specialties Co., Inc., 25 Church St.

Ovens, Gas

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin St.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Ovens, Japanning (*see Ovens, Baking; Ovens, Enameling*)

Ovens, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Ill., Chicago
*Sargent & Co., E. H., 125-127 W. Lake St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Pa., Philadelphia
*Boekel & Co., Wm., 518 Vine St.
*Thomas Co., Arthur H., W. Washington Sq.

Ovens, Lacquering (*see Ovens, Baking, Ovens, Enameling*)

Ovens, Paraffin

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Ovens, Vacuum

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
N. J., Newark
Thermo Electric Instrument Co.

Oxyacetylene Apparatus

Ill., Chicago
Burdett Mfg. Co., St. Johns Court and Fulton St.
Liquid Carbonic Co.
Ind., Indianapolis
Prest-O-Lite Co.
Md., Baltimore
Milburn Co., Alexander, 1420-28 W. Baltimore St.
Mass., Boston
General Welding & Equipment Co.
N. Y., New York City
Air Reduction Co., Inc., 120 Broadway
Linde Air Products Co., 42d St. Bldg.
K. G. Welding & Cutting Co., Inc., 556 W. 34th St.
Ohio, Cincinnati
Macleod Co., Bogen St.

Oxyacetylene Gauges (*see Gauges, Oxyacetylene*)

Oxyacetylene Supplies

Mass., Boston
Waterhouse Mfg. Co.

Oxy-Acetylene Cutting and Welding Equipment

Ill., Chicago
Linde Air Products Co.
Oxweld Acetylene Co.
Ind., Indiana
Prest-O-Lite Co.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway

Oxygen Apparatus

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, 15 William St.
Ohio, Cleveland
Ohio Chemical & Mfg. Co.

Oxygen Reviving Apparatus

N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Oxygen Testing Apparatus

N. Y., New York City
International Oxygen Co., 115 Broadway

Oxygenators

N. Y., Buffalo
Oxygenator Co., Mooney Bldg.

Oxyhydrogen Gas Generating Apparatus

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Oxyhydrogen Generators

N. J., Harrison
Shriver & Co., T., 860 Hamilton St.
N. Y., New York City
Electrolytic Oxyhydrogen Laboratories, Inc., 15 William St.

Oxyhydrogen Welding Equipment

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Ozonators

N. Y., New York City
Schwneker, Inc., W. M., 340-344 E. 92d St.

Package Filling Machinery

N. J., Newark
Automatic Weighing Machine Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Package Packers

N. Y., New York City
Abbé, Paul O., 30 Broad St.

Packages, Steel

Ohio, Defiance
American Steel Package Co.

Packing, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Packing, Ammonia

Conn., Bridgeport
Canfield Rubber Co.
Mass., Boston
Boston Belting Corporation
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.
Wis., Milwaukee
Vilter Mfg. Co.

Packing, Asbestos

Mass., Boston
Walworth Mfg. Co.
N. J., Manville
Johns-Manville Co.
N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Ohio, Lockland
Carey Co., Philip
Pa., Ambler
Keasby & Mattison Co.

Packing, Fibre

Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Mass., Boston
Fibre Finishing Co., 27 State St.

Packing, High Pressure

Mass., Chelsea
Revere Rubber Works
N. J., Manville
Johns-Manville Co.
N. Y., New York City
Asbestos Textile Co., Woolworth Bldg.
Dominion Asbestos & Rubber Co., 154 Nassau St.
Sarco Co., Inc., Woolworth Bldg.
Schieren Co., Charles A., Schieren Bldg.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.

Packing, Hydraulic (*see Packing, High Pressure; Packing, Leather; Packing, Rubber*)

Packing, Leather and Rawhide

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren & Co., Chas. A., 30-38 Ferry St.

Packing Metallic

Mass., Boston
Boston Belting Corporation
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Huhn Metallic Packing Co., Woolworth Bldg.
Magnolia Metal Co., 115 Bank St.
Sarco Co., Inc., Woolworth Bldg.

Packing, Oil Proof

N. Y., New York City
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.

Packing, Rod

Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Packing, Rubber

Mass., Boston
Boston Belting Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Jenkins Brothers, 80 White St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Pa., Erie
Continental Rubber Works
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Packing, Sheet (*see also Packing, Rubber*)

N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.
U. S. Indestructible Gasket Co., 50 Church St.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Franklin
Franklin Mfg. Co.

Pails, Fibre

N. Y., New York City
Cordley & Hayes, 7 Leonard St.

Paint Machinery

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Holmes & Blanchard Co., 31 State St.
Spray Engineering Co., 93 Federal St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Muncy
Sprout, Waldron & Co.

Palau Ware

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.

Pans, Acid Crystallizing

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Pans, Acidulating

Del., Wilmington
Walker & Elliott, Inc.
Ind., Aurora
Stedmans Foundry & Machine Works
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pans, Amalgamating

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
N. Y., New York City
Mine & Smelter Supply Co., Inc., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pans, Boat

England, Widnes
Widnes Foundry Co., Ltd., The

Pans, Calorimeter

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Pans, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
Badger & Sons Co., E. B.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
Van Emden Co., H., 145 W. 45th St.
Pa., Fullerton
Lehigh-Fuller Co.
Pa., Philadelphia
Philadelphia Roll & Machine Co., S. 23d and Washington Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Pans, Clean Up

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago Heights
Chalmers & Williams, Inc.

Pans, Concentrating

Pa., Fullerton
Fuller-Lehigh Co.

Pans, Crystallizing, Metal

Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry & Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Williamsport
Valley Iron Works

Pans, Crystallizing, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pans, Decomposing

England, Widnes
Widnes Foundry Co., Ltd., The

Pans, Drip

Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
Katzinger Co., Edward, 120 N. Peoria Ave.
Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Pans, Enameled

N. Y., New York City
Mott Iron Works, J. L.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pans, Evaporating

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
England, Widnes
Widnes Foundry Co., Ltd., The
Ill., Chicago
*Schaar & Co., 1025 S. State St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
Stuart & Peterson
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Albany
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.
N. Y., Brooklyn
Improved Appliance Co., 413 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Duriron Castings Co., 90 West St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Evaporating, Enameled

Ohio, Cleveland
Vitreous Enameling Co., Grant Ave. near 71st St.

Pans, Furnace

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Pans, Grinding

Colo., Denver
Colorado Iron Works Co.
Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Hydrochloric Concentrating

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Pans, Incinerating, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Pans, Jacketed

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Pans, Lead Lined

Colo., Denver
Colorado Iron Works Co.
Ill., Batavia
Sperry & Co., D. R.
Mass., Fall River
Scott & Co., Ernest
N. Y., Brooklyn
Abernathy, John E., 703 Myrtle Ave.
N. Y., New York City
Jacoby, Henry E., 95-97 Liberty St.
National Enameling & Stamping Co., 411 Fifth Ave.
U. S. Lined Tube & Valve Co., 165 Broadway
N. Y., Rochester
Pfaudler Co.
Ohio, Alliance
Reeves Bros. Co.

Pans, Mixing

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Sowers Mfg. Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pans, Porcelain Lined

N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pans, Recovery

Pa., Fullerton
Fuller-Lehigh Co.

Pans, Revolving

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Blvd.

Pans, Salt Cake

Pa., Fullerton
Fuller-Lehigh Co.

Pans, Soap

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Pans, Steam Jacketed

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Sowers Mfg. Co.
Zaremba Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.
N. Y., Rochester
Pfaudler Co.
Ohio, Alliance
Reeves Bros Co.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Youngstown
Youngstown Pressed Steel Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Oat & Sons, Jos., 230 Quarry St.
Ott Co., George F., 213 Buttonwood St.
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pans, Steel, Electrically Welded

N. J., Garwood
Beckley Perforating Co., North Ave.

Pans, Subliming

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
N. J., Newark
Acid Proof Iron Products Co.
N. J., Jersey City
Koven & Bro., L. O., 1540 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Stevens Bros., Singer Bldg.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.

Pans, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., 935 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63 Pitts St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box, 259
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Manistee
Manistee Iron Works Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Pans, Vacuum—*cont.*

N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Niagara Life Ins. Co. Bldg.

N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Sanborn Evaporator Co., 87 Wall St.

N. Y., Rochester
Pfaudler Co., The

Ohio, Akron
U. S. Stoneware Co.

Ohio, Elyria
Elyria Enameled Products Co.

Pa., Fullerton
Fuller-Lehigh Co.

Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Sco land. Glasgow
Blair, Campden & McLean, Ltd., Woodville St., Govan

Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pans, Vacuum (Steam Jacketed)

N. Y., Buffalo
Devine Co., J. P.

N. Y., Rochester
Pfaudler Co., The

Pantographs

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Paper, Abrasive

N. Y., Niagara Falls
Carborundum Co.

Paper, Blue Print

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Paper, Chemical

N. Y., New York City
Fougera & Co., E., 90 Beekman St.

Wash., Everett
Everett Pulp & Paper Co.

Paper, Dialyser

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Paper Felt Duck

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.

N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Paper, Filter

Cal., Berkeley
*University Apparatus Co.

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Deegan Supply Co., 116–122 W. Illinois St.
*Daigger & Co., A., 52–56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
*Schaar & Co., 1025 S. State St.

Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.

N. J., Harrison
Shriver & Co., T., 860 Hamilton St.

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.
*Cooper & Co., Chas., 194 Worth St.
*Eimer & Amend, 205–211 3d Ave.
*Scientific Utilities Co., Inc., 84 E. 10th St.
*Palo Co., 90–94 Maiden Lane

N. Y., Rochester
*Bausch & Lomb Optical Co.

Ohio, Columbus
*Laboratory Supply Co.

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Williams, Browne & Earle

Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Paper, Glassine

Pa., Bridgeport
Diamond State Fibre Co.

Paper, Insulating

Mo., St. Louis
General Roofing Mfg. Co.

Paper Mill Machinery

Conn., Ansonia
Farrell Foundry & Machinery Co.

Del., Wilmington
Pusey & Jones Co.

Paper Mill Machinery—*cont.*

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Stroud & Co., E. H., 928-934 Fullerton Ave.
Swenson Evaporator Co., Monadnock Bldg.
Mass., Holyoke
Holyoke Machine Co.
Mass., Worcester
Rice, Barton & Fales Machine & Iron Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Newark
Currier & Sons, Cyrus
N. Y., Brooklyn
Johnson Co., John
N. Y., New York City
Abbé, Paul O., New St. and Exchange Pl.
Abbe Engineering Co., 220 Broadway
Dorr Co., 101 Park Ave.
International Process Co., 5 Beekman St.
N. Y., Rochester
Knowlton Co., M. D.
N. Y., Ticonderoga
Ticonderoga Machine Works
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Hamilton
Black-Clawson Co.
Ohio, Sandusky
Sandusky Foundry & Machine Co.
Pa., Chester
Wetherill & Co., Robert
R. I., Providence
Textile Finishing Machinery Co.
Wis., Beloit
Beloit Iron Works

Paper, Parchment

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Paper Pulp Machinery (*see Paper Mill Machinery*)

Paper Testing Apparatus

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Paraamidophenol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Parchment, Vegetable Paper

Pa., Bridgeport
Diamond State Fibre Co.

Parchmoid Paper

Pa., Bridgeport
Diamond State Fibre Co.

Pasteurizing Apparatus

Conn., Derby
Dairy Machinery & Construction Co., Inc.
Ia., Cedar Rapids
Cherry Co., J. G.
Ill., North Chicago
Davis Watkins Dairymens Mfg. Co.
Mass., Boston
International Equipment Co.
Mo., St. Louis
Barry-Wehmiller Mach. Co., 6501 Florissant Ave.
N. Y., Long Island City
Jensen Creamery Machinery Co.
Ohio, Canton
Advance Dairy Machinery Co.
Ohio, Cleveland
Loew Mfg. Co.
Wis., Milwaukee
Milwaukee Dairy Supply Co.
Vilter Mfg. Co.

Patches, Gummed

Mass., Framingham
Dennison Mfg. Co.

Pebbles, Danish Flint

N. Y., New York City
Smidth & Co., F. L., 50 Church St.

Pebbles, Flint, Selected

N. Y., New York City
Abbé, Paul O., 30 Broad St.

Penetrometers

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Penstocks

Iowa, Des Moines
Des Moines Bridge & Iron Works
Md., Baltimore
Bartlett Hayward Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Percolators,

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Brooklyn
Burkhard Inc., Thomas, 494 Flushing Ave.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 Church St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.

Percolators, Pharmaceutical

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Stokes Machine Co., F. J.

Pestles *(see also Mortars)*

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Ill., Joliet
Humphrey & Sons
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.

Petrographic Apparatus

N. Y., Binghamton
Ansco Co.
N. Y., Rochester
Bausch & Lomb Optical Co.
Eastman Kodak Co.

Pharmaceutical Machinery

Mich., Detroit
Colton Co., Arthur
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Whitall-Tatum Co.

Phenacetin Apparatus

N. Y. Buffalo
Devine Co., J. P.

Phenolphthalein Apparatus

N. Y., Buffalo
Devine Co., J. P.

Phenol Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummis Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Kalpberry Corp., 31 Union Sq., W.

Phosphorizers, Graphite

Mass., Taunton
Taunton Crucible Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
Gautier & Co., J. H.
N. Y., New York City
Foreign Crucibles Corp., Ltd., 51 Church St.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Philadelphia
Ross-Tacony Crucible Co.

Photographic Apparatus

Mo., St. Louis
Cramer Dry Plate Co., G., Lemp and Shenandoah Aves.
Hammer Dry Plate Co., Ohio Ave. and Miama St.
N. Y., Binghamton
Ansco Co.
N. Y., New York City
Fuerst Bros. & Co., 2 Stone St.
Gennert, G., 24 E. 13th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Eastman Kodak Co., 243 State St.

Photographic Film Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Photographic Lenses

N. Y., Rochester
Bausch & Lomb Optical Co.

Photometers

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
Leeds & Northrup Co., 4901 Stenton Ave.

Photometers, Jet

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Photomicrographic Apparatus

Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Eimer & Amend, 205-211 3d Ave.
Palo Co., 90-94 Maiden Lane
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Photomicroscopical Apparatus

Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Physical Apparatus

(*see Chemical Equipment and Apparatus; see Specific Headings*)

Physiological Apparatus

(*see Chemical Equipment and Apparatus; see Specific Headings*)

Pipe

(*see Fittings*)

Pipe, Acid Proof

Cal., San Francisco
Gladding, McBean & Co., 148 Natoma St.
Pacific Pipe & Tank Co.
Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
American Hard Rubber Co., 11 Mercer St.
Bethlehem Foundry & Machine Co., 149 Broadway
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Gutta Percha & Rubber Mfg. Co., 127 Doane St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 70 E. 41st St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pipe, Ammonia

Ga., Columbus
Columbus Iron Works Co.
Ky., Louisville
Vogt Machine Co., Henry
N. J., New Brunswick
Brunswick Refrigerating Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Pipe and Fittings, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pipe, Antimonial Lead

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Block Tin

Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
United Lead Co., 111 Broadway

Pipe Casing

N. Y., Elmira
Wyckoff & Son Co., A.

Pipe, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Ill., Chicago
Illinois Malleable Iron Co., 1804 Diversey Blvd.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
National Tube Co.

Pipe, Cast Iron, Enameled

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Pipe, Cast Iron, Glass Lined

Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.

Pipe, Copper

Conn., Bridgeport
Bridgeport Brass Co.
Conn., Waterbury
American Brass Co.
Md., Baltimore
Baltimore Tube Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 82 Lafayette St.
United Lined Tube & Valve Co., 111 Broadway
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood St.

Pipe, Copper Lined, Iron

N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Pipe Covering

N. Y., New York City
Celite Products Co., 11 Broadway

Pipe, Hard Rubber

N. J., Trenton
Luzerne Rubber Co., Muirheid Ave.

Pipe, Lead

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Raymond Lead Co., 940 W. Huron St.
N. Y., New York City
Du Bois & Co., F. H., 245 9th Ave.
United Lined Tube & Lead Co., 111 Broadway
Pa., Coatesville
Coatesville Boiler Works

Pipe, Lead, Chemical

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
National Lead Co., 111 Broadway

Pipe, Lead, Covered Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Lead Lined

N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Pipe, Lead Lined, Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
United Lead Co., 111 Broadway

Pipe Line Measures, Self Registering

Ind., Ft. Wayne
Bowser & Co., Inc., S. F.

Pipe, Pile, Pure Tin

Pa., New Brighton
Standard Specialty & Tube Co.

Pipe, Plain and Socket

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Pipe, Riveted

Cal., Los Angeles
Llewellyn Iron Works
Ind., Fort Wayne
Western Gas Construction Co.
Mass., Boston
Sturtevant Co., B. F.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pipe, Sheet Lead

Ill., Chicago
Raymond Lead Co.
N. Y., New York City
United Lead Co., 111 Broadway

Pipe, Steel

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Ind., East Chicago
Graver Tank Works, Wm.
Ind., Fort Wayne
Western Gas Construction Co.
Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Youngstown
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.
Pa., Pittsburgh
Jones & Laughlin Co.
National Tube Co.
Pittsburgh Valve Foundry & Construction Co.
Scaife & Sons Co., W. B.
Pa., Sharon
Petroleum Iron Works Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pipe, Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pipe, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Pipe Supports

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipe Systems

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Pipe, Tin Lined

N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Valve Co., 111 Broadway

Pipe, Tin Lined, Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Tower, Stoneware

Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.

Pipe, Wood

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
Redwood Mfrs. Association
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The

Mich., Kalamazoo
Kalamazoo Tank & Silo Co.
N. Y., New York City
Acme Tank Co., 39 Courtlandt St.
Ohio, Cincinnati
Hauser, Stander Tank Co.
Ore., Portland
National Tank & Pipe Co., 275 Oak St.
Wash., Seattle
Continental Pipe Mfg. Co.

Pipe, Wood, Solid Bored
N. Y., Elmira
Wyckoff & Son Co., A.

Pipe, Wood Stave
N. Y., Elmira
Wyckoff & Son Co., A.

Pipe, Wrought Steel, Lap Welded
N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipes and Fittings, Lead Lined
N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Pipes and Fittings, Lead Lined Iron
N. Y., New York City
United Lined Tube & Valve Co., 111 Broadway

Pipes and Fittings, Steam Jacketed
N. Y., Buffalo
Devine Co., J. P.

Pipette Rests
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Pipettes (*see also Glassware, Chemical*)
England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Scientific Utilities Co., Inc., 84 E. 10th St.
N. Y., Rochester
Will Corporation
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.
Pa., Carbondale
Griebel Instrument Co.

Pipettes, Gas
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Pipettes, Serological
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Piping, High Pressure
Conn., Hartford
Whitlock Coil Pipe Co.

Pitchers, Acid
Ohio, Akron
Weeks, A. J.

Pitchers, Acid Proof
Ohio, East Akron
Knight, Maurice A.

Pitchers, Stoneware
N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.

Pitot Tubes
Mich., Detroit
American Blower Co.

Planimeters
N. Y., New York City
Robertson & Son, James L., 78-80 Murray St.
Pa., Corry
Trill Indicator Co.

Plants (*see Specific Headings; also Consult Chapter V: Chemical Engineers*)

Plate Construction (*see also Steel Plates*)
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Williamsport
Keeler Co., E., 238 West St.

Plate Work Apparatus
N. Y., New York City
Furman-Fisher Corporation, 30 Church St.

Plate Work, Special
Mass., Framingham
International Engineering Works, Inc. Waverly St.

Plates Activated Sludge, Air Diffusing
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Air Diffusing
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Alundum, for Filtering
Mass., Worcester
Norton Co., New Bond St.

Plates, Aerating
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Cast Iron
Ala., Birmingham
Tennessee Coal Iron & R. R. Co.
N. J., East Burlington
U. S. Cast Iron Pipe and Foundry Co.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Pittsburgh
American Sheet & Tin Plate Co.

Plates, Color
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Plates, Desiccator
N. Y., Rochester
*Will Corporation
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Plates, Distributing, Tower, Stoneware
N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.

Plates, Filter, Acid Proof (*see Filter Plates, Acid Proof*

Plates, Flotation
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Gas Diffusing
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Glass
N. Y., Corning
Corning Glass Works

Plates, Hot
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Plates, Porcelain (*see also Laboratory Apparatus and Equipment*)
Colo., Golden
Herold China & Pottery Co.
Ohio, Cambridge
Guernsey Earthware Co.
Ohio, Columbus
Laboratory Supply Co.

Plates, Porous
Ohio, Zanesville
Ohio Pottery Co., Dearborn St.

Plates, Porous, Acid Proof
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Screen (*see Screens*)

Platforms, Engine
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Platinum, Alloys
Pa., Malvern
Bishop & Co., J., Platinum Works

Platinum, Assayers
Pa., Malvern
Bishop & Co., J., Platinum Works

Platinum, Contacts
Pa., Malvern
Bishop & Co., J., Platinum Works

Platinum Apparatus
N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Eimer & Amend, 205-211 3d Ave.
*Laboratory Materials Co., 640 E. 71st St.
United States Metals Refining Co., 120 Broadway
N. Y., Rochester
*Bausch & Lomb Optical Co.
*Will Corporation
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co.

Platinum, Dishes

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Electrodes

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Filter Cones

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Gauze

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Gold

N. J., Newark
American Platinum Works, 255 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum, Sheet and Foil

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum Sheet, Perforated

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum, Silver

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Platinum Ware

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Wire

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Plugs, Acid Proof

Conn., Bridgeport
Canfield Rubber Co.
Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Plugs, Fusible

Mass., Boston
Plouff Co., 1558 River St., Hyde Park
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
Sherwood Mfg. Co., 1710 Elmwood Ave.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 127 Duane St.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.

Plugs, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Plugs, Lead

N. Y., New York City
United Lined Tube & Valve Co., 165 Broadway
Pa., Philadelphia
Monarch Mfg. Work., Inc., 3129 Emery St.

Plungers, Pump, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Polariscopes

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mich., Ann Arbor
*Eberbach & Son Co.
N. Y., New York City
*Eimer & Amend, 211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Porcelains, Impervite

N. Y., New York City
Engelhard, Chas., 30 Church St.

Porcelain Ware

Colo., Denver
Denver Fire Clay Co.
Colo., Golden
Herold China & Pottery Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger, A., & Co., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
*Schaar & Co., 1025 S. State St.
N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
Abbé Paul O., 30 Broad St.
*American Apparatus Corp., 9-11 E. 16th St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
*Doniger & Co., 164 5th Ave.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Palo Co., 90-94 Maiden Lane
*Scientific Utilities Co., Inc., 84 E. 10th St.
*Standard Scientific Co., 147 Waverly Pl.
Ohio, Cambridge
Guernsey Earthware Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Ohio, Columbus
*Laboratory Supply Co.
Ohio Pottery Co.
Pa., Pittsburgh
*Scientific Materials Co.

Posts, Indicator

N. Y., Elmira
Kennedy Valve Mfg. Co.

Pots, Acid

Ala., Birmingham
Alabama Cast Iron Pipe Co.
Ga., Atlanta
Pratt Engineering & Machine Co.
Mass., Boston
Badger & Sons, E. B., 63-75 Pitts St.
Henderson, Geo., 9 Preston St.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Newark
Acid Proof Iron Products Co., 41 Hermon St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Woodhaven
Chemical Equipment Co.
Ohio, Akron
U. S. Stonewear Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Akron
United States Stoneware Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co. Morris Bldg.
Pa., Pittsburgh
Marshall Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Pots, Acid Proof Stoneware

N. Y., Rochester
Pfaudler Co., The
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Acid Resistant, Cast Iron, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Pots, Annealing

Conn., Branford
Malleable Iron Fittings Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Pots, Assay Clay

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Assay Sand

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Caustic

Ala., Birmingham
American Cast Iron Pipe Co.
England, Widnes
Widnes Foundry Co., Ltd., The
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
N. Y., Brooklyn
Improved Appliance Co., 415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
U. S. Stoneware Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Stokes Machine Co., F. J.
Wood & Co., R. D., 400 Chestnut St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pots, Decanting

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Decomposing

Pa., Fullerton
Fuller-Lehigh Co.

Pots, Galvanizing

N. Y., New York City
General Ceramics Co., 50 Church St.
Wis., Milwaukee
Milwaukee Boiler Co., 220 Oregon St.

Pots, Nitre

Del., Wilmington
Walker & Elliott, Inc.
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Caroline Foundry Co., 723 S. Caroline St.
Mich., Bay City
MacKinnon Boiler & Machine Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., New York City
Cornell Iron Works, 26th and 11th Ave.
Duriron Castings Co., 90 West St.
N. Y., Rochester
Pfaudler Co., The
N. Y., Woodhaven
Chemical Equipment Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pots, Nitre—*cont.*

Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Manitowoc
Manitowoc Engineering Works

Pots, Smelting

N. Y., New York City
International Process Co., 5 Beekman St.

Pots, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Tinning

Ill., Batavia
Sperry & Co., D. R.
Pa., Piltsburgh
Marshall Foundry Co., 29th and Railroad Sts.

Pottery Machinery

Ohio, Bucyrus
American Clay Machinery Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.

Powder Flasks, Fibre

N. Y., New York City
Cordley & Hayes, 7 Leonard St.

Powder Mill Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Power Plants, Electric

N. Y., New York City
Western Electric Co., 195 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Power Stations, Hydraulic

N. Y., New York City
Dover Boiler Works, 55 Church St.

Power Transmission Machinery

(*see Transmission Machinery*)

Precipitation Apparatus

Ill., Chicago
Thordarson Electric Mfg. Co., 501 S. Jefferson St.

Precipitation Process, Electric Equipment for

N. Y., Schenectady
General Electric Co.

Precipitation Process, Zinc Dust

Cal., San Francisco
Merrill Metallurgical Co., 121 2d St.

Precipitation Processes, Cottrell, Electrical

N. Y., New York City
Research Corporation, 65 Wall St.

Precipitators

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Precision Instruments

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
*Laboratory Materials Co., 640 E. 71st St.
*Schaar & Co., 1025 S. State St.
Mass., Foxboro
Foxboro Co., Inc.
Mass., Southbridge
American Optical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Trenton
Pyrolectric Co., 148 E. State St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Palo Co., 50 E. 41st St.
Western Electric Co., 463 West St.
N. Y., Rochester
Bausch & Lomb Optical Co.

Precision Instruments—*cont.*

Pa., Philadelphia
Biddle James G.
Brown Instrument Co.
Leeds & Northrup Co., 4921 Stenton Ave.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Preheaters

Ind., Fort Wayne
Western Gas Construction Co.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
Mass., Fall River
Scott & Co., Ernest
N. Y., Brooklyn
Hauck Mfg. Co., 101-113 Eleventh St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., Buffalo
Zaremba Co., Morgan Bldg.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co.
N. Y., Syracuse
Syracuse Industrial Gas Co., 483 S. Salina St.
Pa., Williamsport
Valley Iron Works

Presses, Abrasive Wheel

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Acid (*see also Presses, Hydraulic*)

N. Y., Syracuse
Boomer & Boscher & Press Co.

Presses, Baling

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Briquetting

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Clay Forming

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Cold Plate

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Continuous

N. Y., New York City
American Process Co., 68 William St.

Presses, Electro-Chemical

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Electrode

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Fertilizer

N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Filter

Cal., Los Angeles
Llewellyn Iron Works
Cal., San Francisco
Oliver Continuous Filter Co., 505 Market St.
Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., Monadnock Bldg.
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Harrison
Shriver & Co., T., 860 Hamilton St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Townsend Furnace & Machine Shop Co., B'way and Rennselaer St.

Presses, Filter—*cont.*

N. Y., New York City
Abbe Engineering Co., 220 Broadway
American Process Co., 68 William St.
Beach-Russ Co., 220 Broadway
*Eimer & Amend, 205-211 3d Ave.
Independent Filter Press Co., Inc., 47 W. 34th St.
Industrial Filtration Corp., 115 Broadway
*Jacoby, Henry E., 95 Liberty St.
Lungwitz, Emil E., 30 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
*Palo Co., 50 E. 41st St.
Provost Engineering Corp., 218 Broadway
United Filters Corporation, 65 Broadway.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Carbondale
Carbondale Machine Co.
Utah, Salt Lake City
United Filters Corp., Felt Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Presses, Filter (Acid Proof)

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Presses, Filter Laboratory

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Presses, Garbage Reduction

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Grease

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Herb

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Hot Plate

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Hydraulic

Conn., Ansonia
Farrell Foundry & Machine Co.
Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.
Mass., Holyoke
Holyoke Machine Co.
N. J., Newark
Shriver & Co., T.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Aldena
Watson-Stillman Co., The
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp.
N. Y., Olean
Van Atta & Co., Inc., E. B.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Wood & Co., D. R.

Presses, Laboratory

Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
N. J., Harrison
Shriver & Co., T., 860 Hamilton St.
N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Leather

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Oil

N. J., Harrison
Shriver & Co., T.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Oleo

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Powder

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Special

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Perrin & Co., Wm. B., 37 W. Van Buren St.
Mich., Detroit
Colton Co., Arthur, 782 Jefferson Ave.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
Lungwitz, Emil E., 30 Church St.
N. Y., Syracuse
Boomer & Boschert Press Co., 382 W. Water St.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.

Presses, Stearic Acid

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Sugar Beet

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Tankage

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Veneer

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Wooden Filter

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Producers, Gas (*see Gas Producers*)

Producers, Pressure

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Producers, Suction

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Projection Apparatus

N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Protectors, Eye

Pa., Reading
Hettinger, E. L., 2d and Washington Sts.

Protectors, Face and Head (*see also Helmets, Masks*)

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Pulley Covering

Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Pulleys

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Mass., Boston
American Tool & Machine Co.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Pulleys, Cork Insert

Mass., Boston
Cork Insert Co., 164 Federal St.

Pulleys, Magnetic

N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Wis., Milwaukee
Dings Magnetic Separator Co., 671 Smith St.
Magnetic Mfg. Co., 764 Windlake Ave.

Pulleys, Steel Split

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Pa., Philadelphia
American Pulley Co., 4200 Wissahickon Ave.
Wis., Milwaukee
Chain Belt Co.

Pulp Mill Machinery (*see Paper Machinery*)

Pulsometers

Mass., Boston
Eastern Clay Goods Co., 141 Milk St

Pulverized Coal Equipment (*see also Pulverizers, Coal*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Pulverizers, Air Separation

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Johnson Engineering Works, 1734 First National Bank Bldg.
Raymond Bros., Impact Pulverizer Co., 1319 N. Branch St.
Stroud & Co., E. H., 928-934 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Md., Baltimore
Sackett, A. J.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mo., St. Louis
Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.
N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Buchanan Co., Inc., C. G., 90 West St.
Hardinge Conical Mill Co., 120 Broadway
K.-B. Pulverizer Co., Inc., 86 Worth St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mashek Engineering Co., 90 West St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pulverizers, Aluminum Mill

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Assayers (*see Pulverizers, Laboratory*)

Pulverizers, Cement

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Bradley Pulverizer Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Coal

Ill., Chicago
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Bradley Pulverizer Co.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Buchanan Co., Inc., C. G., 90 West St.
Provost Engineering Corp., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Dry Color

Ill., Chicago
Raymond Bros., Impact Pulverizer Co., 1327 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Hammer-Bar

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
K-B Pulverizer Co., Inc., 70 Worth St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Pulverizers, Hinged Hammer

Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
JeffreyMfg. Co.

Pulverizers, Laboratory

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Cal., Los Angeles
Braun Corp., The, 363 New High St.
Cal., San Francisco
Braun-Knecht-Heimann, 106 W. 3d St.
N. Y., New York City
Abbé, Paul O., 30 Church St.
Abbe Engineering Co., 220 Broadway
*Eimer & Amend, 205-211 3d Ave.
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-94 Maiden Lane
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W.Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co.

Pulverizers, Limestone

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Ore (*see Crushers, Grinders*

Pulverizers, Phosphate Rock

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Refractory Materials

Mass., Boston
Bradley Pulverizer Co.
Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Pulverizers, Ring Roll

Mass., Boston
Sturtevant Mill Co.

Pulverizers, Stone (*see Pulverizers, Ore*)

Pump, Air Lift

Ill., Chicago
Sullivan Machinery Co., 122 S. Michigan Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Mich., Battle Creek
American Steam Pump Co.

Pumping Apparatus, Special

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Pumping Machinery, Centrifugal

N. J., Baldwinsville
Morris Machine Works

Pumping Systems, Air Lift

N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Pumping Systems, Pneumatic

N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Pumps, Acid

Ill., Aurora
American Well Works
Ill., Chicago
Sullivan Machinery Co., 122 S. Michigan Ave.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co
Buffalo Steam Pump Co.
Lobee Pump Works, 19-31 Bridge St.

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Duriron Castings Co., 90 West St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Provost Engineering Corp., 220 Broadway
MacGovern & Co., Inc., 114 Liberty St.
United Lined Tube & Valve Co., 111 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Wood & Co., D. R.

Pumps, Acid-Proof

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Pumps, Acid Resisting

Ill., Chicago
Economy Pumping Machinery Co., 120–126 N. Curtis St.

Pumps, Air

Ill., Chicago
Fairbanks-Morse & Co.
Sullivan Machinery Co., 122 S. Michigan Ave.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 13 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Air and Circulating, Steam Driven

Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Alkali

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Ammonia

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Machinery Utilities Co., 501 Fifth Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Carbondale
Carbondale Machine Co.
Wis., Milwaukee
Vilter Mfg. Co.

Pumps, Automatic (*see Pumps, Air*)

Pumps, Ball Valve

N. Y., New York City
Provost Engineering Corp., 220 Broadway
Ohio, Akron
U. S. Stoneware Co.

Pumps, Bilge

Ill., Aurora
American Well Works.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Buffalo
Buffalo Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corporation
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Bleach Liquor

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Bleachery (*see Pumps, Bleach Liquor*)

Pumps, Boiler Feed

Ill., Aurora
American Well Works
Ill., Chicago
Fairbanks-Morse & Co.
Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., New York City
Ingersoll-Rand Co., 115 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Booster

Ill., Chicago
Economy Pumping Machinery Co., 120–126 N. Curtis St.

Pumps, Brewery

Ill., Aurora
American Well Works
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Brine

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Pumps, Centrifugal

Conn., Hartford
Terry Steam Turbine Co.
Ill., Aurora
American Well Works
Ill., Chicago
Fairbanks-Morse Co.
Lammert & Mann Co., Wood and Walnut Aves.
Ill., Quincy
Gardener Governor Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
Union Steam Pump Co.
N. J., Baldwinsville
Morris Machine Works
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Baldwinsville
Morris Machine Works
N. Y., Buffalo
Buffalo Steam Pump Co.
Taber Pump Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Cameron Steam Pump Works, A. S.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc , 501 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Hamilton
Black-Clawson Co.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.
Wheeler Mfg. Co., C. H.
Wood Co., D. R., 400 Chestnut St.
Wis., Grand Rapids
American Carbonic Machinery Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Centrifugal, Chemetal

N. Y., L. I., Rockville Center
Nassau Valve & Pump Co., Inc.

Pumps, Centrifugal, Lead Lined

Ill., Chicago
Economy Pumping Machinery Co., 120–126 N. Curtis St.

Pumps, Chemical (*see Pumps, Acid*)

Pumps, Chemical Fire

N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Chemical (Rotary)

Mich., Petoskey
Blackmer Rotary Pump Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.

Pumps, Circulating

Ill., Aurora
American Well Works
Ind., Connersville
Connersville Blower Co.

Pumps, Creamery

Mich., Petoskey
Blackmer Rotary Pump Co.
Mo., St. Louis
Barry-Wehmiller Machinery Co.
N. Y., Seneca Falls
Gould Mfg. Co.
N. Y., New York City
Davidson Co., M. T., 155 Nassau St.

Pumps, Creosote

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Curtis

Ill., Batavia
U. S. Wind Engine and Pump Co., 30 Water St.

Pumps, Cyanide

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Cycloidal Rotary

Ind., Connersville
Connersville Blower Co.

Pumps, Cylinder Oil, Hand

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Pump, Deep Well

Ill., Aurora
American Well Works
Ill., Chicago
Economy Pumping Machinery Co., 120–126 N. Curtis St.
Sullivan Machinery Co., 121 S. Michigan Ave.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corporation
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Pittsburgh
Oil Well Supply Co.

Pumps, Diaphragm

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Diaphragm, Acid Proof

N. Y., New York City
Dorr Co., 101 Park Ave.

Pumps, Dredging

Conn., Hartford
Terry Steam Turbine Co.
Ill., Aurora
American Well Works

Pumps, Dry Vacuum

N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Pumps, Duplex

Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Electric Driven

Ill., Aurora
American Well Works
Ill., Chicago
Economy Pumping Machinery Co., 120 N. Curtis St.
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Buffalo
Buffalo Steam Pump Co.
N. Y., New York City
Cameron Steam Pump Works, A. S.
Duriron Castings Co., 90 West St.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Feed Oil, Force

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Pumps, Filter

Ill., Aurora
American Well Works
Ill., Batavia
Sperry & Co., D. R.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Harrison
Shriver & Co., T., 860 Hamilton St.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. J., Vineland
Doerr Glass Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Duriron Castings Co., 90 West St.
Provost Engineering Corp., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Pumps, Fire

Ill., Aurora
American Well Works
N. Y., New York City
Ingersoll-Rand Co.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Foam System and Fire Combined

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Gas

Ind., Connersville
Connersville Blower Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clar ge Fan Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Pumps, Gasoline

Ind., Ft. Wayne
Bowser & Co., S. F.
Iowa, Dubuque
McDonald Mfg. Co., A. Y.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Gasoline Storage

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Pumps, Geissler's, Air

N. Y., Rochester
Will Corporation

Pumps, Hand

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Rockford
Eclipse Fuel Engineering Co.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, High Vacuum

Ill., Chicago
Economy Pumping Machinery Co., 120–126 N. Curtis St.

Pumps, Hydraulic Pressure

Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Aldena
Watson-Stillman Co., The
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Pittsburgh
Epping-Carpenter Pump Co., 43d St. and Alleghany Valley R. R.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Irrigating

Ill., Chicago
Fairbanks-Morse & Co.
Conn., Hartford
Terry Steam Turbine Co.
Ind., Connersville
Connersville Blower Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Kerosene

Iowa, Dubuque
McDonald Mfg. Co., A. Y.

Pumps, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. Y., Brooklyn
*Crowell Mfg. Co., 298 Taffe Pl.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Sorensen Co., Inc., C. M.
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.
*Thomas Co., Arthur H., W. Washington Sq.

Pumps, Laboratory, Air

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.

Pumps, Mine

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Oil

Ind., Connersville
Connersville Blower Co.
Roots Co., P. H. & F. M.
Ind., Ft. Wayne
Bowser & Co., S. F.
Iowa, Dubuque
McDonald Mfg. Co., A. Y.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
Johnson Co., John, 37th and 2d Ave.
N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Dayton
Platt Iron Works
Ohio, Salem
Deming Co.
Wis., Milwaukee
Richardson-Phenix Co., 126 Reservoir Ave.

Pumps, Oil and Gasoline, Self Measuring

Ind., Ft. Wayne
Bowser & Co., Inc., F. W.

Pumps, Plunger

Ill., Aurora
American Wells Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Power (*see also Specific Headings*)

Ill., Aurora
American Well Works
Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Pittsburgh
Epping-Carpenter Pump Co., 43d St. and Alleghany Valley R. R.

Pumps, Pressure

Ind., Connersville
Connersville Blower Works
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
Mich., Detroit
Colton Co., Arthur
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Pumps, Propeller

Pa., Philadelphia
Quimby Engineering Co., 450 N. 10th St.

Pumps, Reciprocating

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corporation, 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Rumsey Pump Co., Ltd.

Pumps, Rotary

N. Y., Brooklyn
Crowell Mfg. Co., 296 Taffe Pl.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 220 Broadway
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Philadelphia
Wheeler Mfg. Co., C. H.

Pumps, Rotary, Oil Seal, Vacuum

Pa., York
York Electric & Machine Co., 30-34 N. Penn St.

Pumps, Sewage

Ill., Aurora
American Well Works
Mich., Battle Creek
American Steam Pump Co.
N. Y., Buffalo
Taber Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Slurry

N. Y., New York City
Smidth & Co., F. L., 50 Church St.

Pumps, Slush

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Steam

Cal., Los Angeles
Llewellyn Iron Works
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Aurora
American Wells Co.
Ill., Chicago
Fairbanks Morse & Co., 900 S. Wabash Ave.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Steam Pump Co.
N. Y., New York City
Cameron Steam Pump Works, 11 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corporation, 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Rumsey Pump Co., Ltd.
Ohio, Youngstown
Tod Co.
Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Pumps, Steam, Duplex

Mich., Battle Creek
Advance Pump & Compressor Co.

Pumps, Steam Turbine Driven

N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Stearic Acid

N. Y., Syracuse
Boomer & Boschert Press Co.

Pumps, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pumps, Stuff

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Sugar House

Ill., Aurora
American Well Works
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Sulphur Fume

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tank

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
American Well Works
Mich., Battle Creek
American Steam Pump Co.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Tannery

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tar

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Triplex

Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.

Pumps, Turbine

Conn., Hartford
Terry Steam Turbine Co.
Ill., Aurora
American Well Works
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Seneca Falls
Gould Mfg. Co.
Pa., Philadelphia
Wood & Co., D. R.

Pumps, Vacuum

Cal., Oakland
United Iron Works
Cal., San Francisco
Oliver Continuous Filter Co.
Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Economy Pumping Machinery Co., 120-126 N. Curtis St.
*Elmer, H. N., 53 W. Jackson Blv'd.
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Lammert & Mann Co., Wood and Walnut Sts.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Ind., Connersville
Connersville Blower Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Brooklyn
Crowell Mfg. Co., 298 Taaffe Pl.
Guild & Garrison, 463 Kent Ave.
Hubbard's Son, Norman, 265 Water St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., E., Ferry St. and Fillmore Ave.
Devine Co., J. P., 1366 Clinton St.
N. Y., Little Falls
Burrell & Co., D. H.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Blake & Knowles Steam Pump Works, 115 Broadway
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
New York Air Brake Co., 165 Broadway
Provost Engineering Corp., 220 Broadway
Wing Mfg. Co., L. J., 352 W. 13th St.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Sandusky
Sandusky Foundry & Machine Co.
Pa., Chester
Wetherill & Co., Robt.
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Wheeler Mfg. Co., C. H.
Wis., Milwaukee
Vilter Mfg. Co.

Pumps, Vacuum Heating

N. Y., New York City
Beach-Russ Co., 220 Broadway

Pumps, Waterworks

Conn., Hartford
Terry Steam Turbine Co.
Md., Baltimore
Baltimore Cooperage Co., The

Pumps, Well, Artesian

Ill., Aurora
American Well Works
Md., Baltimore
Baltimore Cooperage Co., The

Punches

Conn., New Britain
Stanley Rule & Level Co.
Mass., Athol
Starrett Co., L. S.
Mich., Detroit
Colton Co., Arthur
R. I., Providence
Brown & Sharpe Mfg. Co.

Purifiers, Fumes

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Co., B. F.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corp.
Ohio, Cleveland
Gas Machinery Co.

Purifiers, Gas

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Co., B. F.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
American Blower Co.
N. J., Trenton
DeLaval Steam Turbine Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., Camden
Webster & Co., Warren
N. Y., New York City
Carrier Engineering Corp., 39 Courtlandt St.
Combustion Engineering Corp., 11 Broadway
Dicks Slosson Co., Inc., 302 Broadway
Holly Pneumatic Systems., Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
Wood & Co., D. R.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Putty Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Pyrex Glass

Ill., Chicago
*Laboratory Materials Co., 640 E. 71st St.
N. Y., Corning
Corning Glass Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Pyrometer Shields, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Pyrometers

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Hoskins Mfg. Co., 453 Lawton Ave.
Precision Instrument Co.
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.
N. Y., Brooklyn
Tagliabue & Co., J. C., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
*Eimer & Amend, 3d Ave., 18th to 19th Sts.
Engelhard, Chas., 30 Church St.
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Uehling Instrument Co., Empire Bldg.
Wilson-Maculen Co., 781 E. 142d St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Biddle, James G.
Brown Instrument Co.
Leeds & Northrup Co., 4921 Stenton Ave.
Precision Thermometer & Instrument Co.
Queen-Gray Co., 618 Chestnut St.
Thwing Instrument Co., 3333 Lancaster Ave.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Gibb Instrument Co.
Scientific Materials Co., 719 Forbes St.

Pyroscopes

N. Y., New York City
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.

Quartz Fibers

N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.

Quartz Glass

Ill., Chicago
Schaar & Co., 1025 S. State St.
N. Y., New York City
Engelhard, Charles, 30 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Quartz Glass, Pure Transparent

N. Y., New York City
Engelhard, Charles, 30 Church St.

Quartz Lamps

N. J., Hoboken
Cooper Hewitt Electric Co., 8th and Grand Sts.

Quartz Sand

Ill., Chicago
United States Silica Co., 419 People's Gas Bldg.

Quartz Ware (*see Silica Ware*)

Racks, Drying

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Racks, Foundry Core

Ill., Aurora
Lyon Metallic Mfg. Co.

Racks, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Mass., Framingham
Manufacturing Equipment & Engraving Co.

Racks, Test Tube

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Radiators, Atmospheric

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Radiators, Blast

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.

Radioscopes

N. Y., New York City
Palo Co., 90 Maiden Lane

Railways, Industrial

Colo., Denver
Mine & Smelter Supply Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Aves.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
N. Y., West New Brighton
Hunt Co., C. W.
Ohio, Cleveland
Lakewood Engineering Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Readers

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Reamers

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ohio, Cleveland
Cleveland Twist Drill Co.

Receivers, Acid

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Koven & Bro., L. O., 50 Cliff St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
United States Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.

Receivers, Acid Proof, Stoneware

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Week, A. J.
Ohio, East Akron
Knight, Maurice A.

Receivers, Air

Ill., Chicago
Sullivan Machinery Co., People's Gas Bldg.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Hamilton
Hamilton Copper & Brass Works

Receivers, Chlorine, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.

Reclaimers

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Reclaimers, Centrifugal Oil

N. Y., New York City
De Laval Separator Co., 165 Broadway

Recorders, Combustion

Mich., Detroit
Precision Instrument Co.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway

Recorders, CO_2

Ill., Chicago
Vulcan Fuel Economy Co., 230 S. La Salle St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co., Fort and Wayne Sts.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway

Recorders, Differential

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Draft

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.

Recorders, Electric

Conn., Waterbury
Bristol Co.
Mass., Foxboro
Foxboro Co.

Recorders, Humidity

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Light Pressure

Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., J. C., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
Bachrach Industrial Instrument Co., 422 1st Ave.

Recorders, Pressure *(see Recorders, Light Pressure)*

Recorders, Tank

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
Wis., Madison
Gisholt Machine Co.

Recorders, Temperature

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Bailey Meter Co., 141 Milk St.
Crosby Steam Gauge & Valve Co., 40 Central St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Green, Henry J., 1191 Bedford Ave.
Schaeffer & Budenberg Mfg. Co.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
DuViver, Ernest H., 30 Church St.
Slocum, Avram & Slocum Laboratories, Inc.
Sarco, Inc., Woolworth Bldg.
Uehling Instrument Co., 2011 Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Mechanicsburg
Scientific Instrument & Electric Machine Co.
Pa., Philadelphia
Brown Instrument Co.
Electric Tachometer Corp., Perry Bldg.
Hydro Mfg. Co., 320 Bullitt Bldg.
Thwing Instrument Co., 436 N. 5th St.
Wis., Madison
Gisholt Machine Co.

Recorders, Time (*see Recorders, Temperatures*)

Recorders, Vacuum

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
*Scientific Materials Co., 719 Forbes St.

Recorders, Water Level

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recovery Plants (*see also Acid Recovery Plants, and Solvent Recovery Apparatus*)

Colo., Denver
Mine & Smelter Supply Co.
Md., Baltimore
Bartlett Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O.
N. Y., Brooklyn
Johnson Co., John, 2d Ave. and 37th St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
De Laval Separator Co., 165 Broadway
Foundation Co., The, Woolworth Bldg.
General Ceramics Co., 50 Church St.
International Process Co., 5 Beekman St.
Kalbperry Corporation, 31 Union Square, W.
Koven & Bro., L. O., 50 Church St.
Sanborn Evaporator Co., 50 Broad St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Sharpless Specialty Co.

Rectifiers

Ill., Chicago
Valhalla Co., Valhalla Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Roos' Son, August, 421-429 E. 91st St.
N. Y., Buffalo
Devine Co., J. P., 1372 Clinton St.
Ohio, Cincinnati
Vulcan Copper Works Co., 122 Sycamore Ave.

Reducers

Mass., Boston
Badger & Sons Co., E. B., 63 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Reducers, Iron Pipe

Conn., Branford
Malleable Iron Fittings Co.

Reductors

N. Y., Rochester
Will Corporation

Refineries, Wood Tar

Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Reflector Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflectors

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflectors, Porcelain Enameled Steel

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Refractometers

N. Y., Rochester
Bausch & Lomb Optical Co., St. Paul St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Refractories

Cal., San Francisco
Braun-Knecht-Heimann, 576 Mission St.
Colo., Denver
Denver Fire Clay Co.
Colo., Golden
Herold China & Pottery Co.
Ill., Danville
Western Brick Co.
Mass., Cambridge
Exlon Co., The, 156 6th St.
Mass., Worcester
Norton Co.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
Mo., St. Louis
Laclede Christy Clay Fire Products Co.
N. Y., New York City
Celite Products Co., 11 Broadway
Mine & Smelter Supply Co., Inc., 42 Broadway
Robinson Clay Product Co., Flatiron Bldg.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 109 N. 19th St.
Harbison-Walker Refractories Co.
Lavino & Co., E. J., Bullitt Bldg.

Refractories, Impervite

N. Y., New York City
Engelhard, Chas., 30 Church St.

Refrigerating Machinery

Conn., Hartford
Automatic Refrigerating Co.
Del., Wilmington
Remington Machine Co.
Ga., Columbus
Columbus Iron Works Co.
Ky., Louisville
National Foundry & Machine Co.
Vogt Machine Co., Henry
Mo., St. Louis
Brecht Co.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co., foot E. 138th St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams St. and B. & O. R. R.
Ohio, Cincinnati
Triumph Ice Machine Co.
Ohio, Cleveland
Phoenix Ice Machine Co., 2711 Church Ave.
Ore., Portland
Harris Ice Machine Works, Inc., 174 E. Water St.
Pa., Carbondale
Carbondale Machine Co.
Pa., York
York Mfg. Co.
Wash., Spokane
Armstrong Machinery Co., 3201-3219 E. Riverside St.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Refrigerating Safety Devices

N. Y., New York City
Schwenker Inc., W. M., 340-344 E. 92d St.

Refrigerating Supplies

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Refrigerating Systems, Ammonia

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Refrigerating Systems, Brine

N. Y., New York City
Equitherm Control Corp., 30 Church St.
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., Carbondale
Carbondale Machine Co.
Wis., Milwaukee
Vilter Mfg. Co.

Regulators, Automatic

N. Y., New York City
Engelhard, Chas., 30 Church St.

Regulators, Automatic Pressure

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Automatic Temperature

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Boiler Feed Water

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.

Regulators, Condensate

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Regulators, Controller

N. Y., New York City
Western Electric Co., 195 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Regulators, Damper

Ill., Chicago
American Radiator Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C.J., 18-88 33d St.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
N. Y., Rochester
Taylor Instrument Cos.
Wis., Milwaukee
Johnson Service Co.

Regulators, Dry Kiln

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Sarco Co., Inc., 229 Broadway

Regulators, Electric (*see Regulators, Controller*)

Regulators, Feed Water (*see Regulators, Boiler Feed Water*)

Regulators, Furnace

N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Rockwell Co., W. S., 50 Church St.
Sarco Co., Inc., Woolworth Bldg.

Regulators, Gas

Conn., Bridgeport
Sprague Meter Co.
N. J., Jersey City
Davis-Bournonville Co.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.
N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway

Regulators, Heat (*see Regulators, Temperature*)

Regulators, Heat Automatic

N. Y., New York City
American Gas Furnace Co., 24 John St.

Regulators, Hot Water

Ill., Chicago
American Radiator Co.
Iowa, Marshalltown
Dunham Co.
Fisher Governor Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J.
N. Y., New York City
Rockwell Co., W. S., 165 Broadway
Sarco Co., Inc., Woolworth Bldg.
Ohio, Cleveland
Bishop & Babcock Co.
Wis., Milwaukee
Johnson Service Co.

Regulators, Humidity

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Braemer Air Conditioning Corporation, LaFayette Bldg.
Wis., Milwaukee
Johnson Service Co.

Regulators, Liquid Level

N. Y., Brooklyn
Tagliabue Mfg. Co., 18-88 33rd St.

Regulators, Motor Speed

Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Regulators, Pressure

Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d and 3d Ave.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Ohio, Cleveland
Bishop & Babcock Co.
Wis., Milwaukee
Johnson Service Co.

Regulators, Pressure, Gas

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Ohio, Cleveland
Lennox Chemical Co., The, 1201 E. 55th St.

Regulators, Refrigeration

Neb., Omaha
Baker Ice Machine Co.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
Wis., Milwaukee
Johnson Service Co.

Regulators, Steam Pressure (*see Regulators, Pressure*)

Regulators, Tank (*see Regulators, Hot Water*)

Regulators, Temperature (*see also Regulators, Humidity*)

Conn., Waterbury
Bristol Co.
Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Powers Regulator Co., 5 S. Wabash Ave.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Braemer Air Conditioning Co., La-Fayette Bldg.
Brown Instrument Co.
R. I., Providence
General Fire Extinguisher Co.
Wis., Milwaukee
Johnson Service Co.

Regulators, Vacuum

Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.

Regulators, Water Pressure (*see Regulators, Pressure*)

Reservoirs, Aerating

Mass., Boston
Spray Engineering Co., 93 Federal St.

Reservoirs, Air Brake

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Resistances

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Resorcin Apparatus and Plants

N. Y., Buffalo
Devine Co., J. P.

Respirators

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Saving Device Co., 564 W. Monroe St.
Ind., South Bend
Cover, H. S., P. O. Box 404
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
American Thermo-Ware Co., 16 Warren St.
Bernard & Co., F. J., 70 Murray St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
*Eimer & Amend, 205-211 3d Ave.
Hayward & Co., S. F., 250 W. 54th St.
Multi-Metal Separating Screen Co., 74 E. 131st St.
National Helmet Co., 39 Park Pl.
National Resuscitating Apparatus Co., Inc., 39 E. 19th St.
Schwenker, Inc., W. M., 340-344 E. 92d St.

Respirators—*cont.*

Ohio, Akron
Goodrich Co., B. F., S. Main St.
Pa., Philadelphia
Wyeth & Bro., Inc., J., 11th and Washington Ave.
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 1st Ave.

Resuscitators

Ill., Chicago
*Elmer, H. N., 53 W. Jackson Blvd.
Life Saving Devices Co., 564 W. Monroe St.
N. Y., New York City
National Resuscitating Apparatus Co., Inc., The, 39 E. 19th St.

Retorts, Acid

Ill., Batavia
Sperry & Co., D. R.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. J., Burlington
Stuart & Peterson Co.
United States Cast Iron, Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Farrar & Trefts
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Blair Campbell & McLean, Colonial Trust Bldg.
Kutztown Foundry & Machine Co., Morris Bldg.
Stokes Machine Co., F. J.
Pa., Williamsport
Keeler Co., E.

Retorts, Carbonization

N. J., Perth Amboy
Didier-March Co.

Retorts, Cast Iron

Colo., Denver
Colorado Iron Works Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Ind., Fort Wayne
Western Gas Construction Co.
N. J., Burlington
Stuart & Peterson Co.
U. S. Cast Iron Pipe & Foundry Co.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. C., Charlotte
Chemical Construction Co.
N. Y., Brooklyn
Improved Appliance Co., 413–415 Kent Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Roos' Sons, August
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Blair Campbell & McLean, Inc., Colonial Trust Bldg.
Stokes Machine Co., F. J.
Wood & Co., D. R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Retorts, Charcoal

Mich., Muskegon
Muskegon Boiler Works, Eighth St.

Retorts, Clay

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Retorts, Direct Heat, Shelf

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Retorts, Glass (*see also Laboratory Apparatus and Equipment*)

N. J., Vineland
Doerr Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Retorts, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Trenton
Bartley Crucible Co., J.

Retorts, Nitric (*see Retorts, Acid*)

Retorts, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., J., Platinum Works

Retorts, Steel

Ill., Batavia
Sperry & Co., D. R.
Ind., East Chicago
Graver Tank Works, Wm.
N. J., Burlington
Stuart & Peterson Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Farrar & Trefts
Sowers Mfg. Co.
Trout Co., H. G., 226 Ohio St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Wood & Co., D. R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Retorts, Stoneware (*see Retorts, Clay*)

Retorts, Sulphuric (*see Retorts, Acid*)

Revolvators

Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
N. J., Jersey City
Revolvator Co., 344-352 Garfield Ave.

Rheostats

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
National Electric Controller Co., 154 Whiting St.
Mass., Boston
Mason Regulator Co., 127 Federal St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Electric Products Co., 10514 Dupont Ave., N. E.
Pa., Philadelphia
Crucible Steel Co. of America, 30th and Smallman Sts.
Wirt Electric Specialty Co., Armat and Lena Sts.
Pa., Pittsburgh
Westinghouse Electric & Mfg. Co.

Rhotanium Ware

N. Y., New York City
Palo Co., 90 Maiden Lane

Rings, Acid

Ga., Atlanta
Hood Brick Co., B. Mifflin
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Wash., Tacoma
Far West Clay Co., 224-228 Tacoma Bldg.

Rings, Metal

N. Y., New York City
*Rebele, L. J., 50 Church St.

Rings, Piston

Md., Baltimore
Bartlett Hayward Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway

Rings, Rubber

Conn., Bridgeport
Canfield Rubber Co.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
Mass., Revere
Revere Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 121 Duane St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Rinsers (*see Bottle Machinery*)

Roasters (*see also Furnaces, Ovens*)

N. Y., Brooklyn
Improved Appliance Co., 413–419 Kent Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Roasting, Reverbrating

Colo., Denver
Colorado Iron Works Co.

Rods

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Akron
Goodrich Co., B. F.

Rods, Brass

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Rods, Bronze

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Rods, Condensite Celoron

Pa., Bridgeport
Diamond State Fibre Co.

Rods, Copper

Mich., Detroit
Detroit Copper & Brass Rolling Mills 95 Clark Ave.

Rods, Drill, Polished

N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt St.

Rods, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works

Rods, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Rods, Marine Bronze

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Muntz Metal

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Rods, Pumps

Md., Baltimore
Baltimore Cooperage Co., The

Rods, Rubber

Conn., Bridgeport
Canfield Rubber Co.
Mass., Cambridge
Boston Woven Hose & Rubber Co.
Mass., Revere
Revere Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Rods, Vulcanized Fibre

Pa., Bridgeport
Diamond State Fibre Co.

Rolls, Chilled

Conn., Ansonia
Farrell Foundry & Machine Co.
Ky., Louisville
Vogt Machine Co., Henry
Ohio, Youngstown
Youngstown Foundry & Machine Co.
Pa., Carbondale
Carbondale Machine Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Rolls, Crushing

Cal., Los Angeles
Lane Mill & Machinery Co.
Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ill., Chicago
Chalmers & Williams, Inc.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.

Rolls, Crushing—*cont.*

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. Y., New York City
Abbe Engineering Corp., 220 Broadway
Buchanan Co., Inc., C. G., 90 West St.
*K.-B. Pulverizer Co., 70 Worth St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Rolls, Pulverizing (*see Rolls, Crushing*)

Rolls, Sheeting, for Pastes, Dough

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

Roofing, Asphalt

Mass., East Walpole
Bird & Son
Mo., St. Louis
Certain-teed Products Corp.
N. Y., New York City
Barrett Co., Whitall Bldg.
Johns-Manville Co., H. W., 296 Madison Ave.
Texas Co., 17 Battery Pl.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Tonawanda
National Roofing Co.
Ohio Lockland
Carey Mfg. Co., Philip
Pa., Ambler
Keasby & Mattison Co.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Roofing, Rex Flintkote

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Rooms, Incubating

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Rope Drives

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Rope, Rawhide

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Rope, Manila

N. Y., New York City
Waterbury Co., 63 Park Row

Rope, Sisal

N. Y., New York City
Waterbury Co., 63 Park Row

Rope, Wire

N. J., Trenton
Roebling's Sons Co., John
N. Y., New York City
Waterbury Co., 63 Park Row

Rubber Cement Machines

Conn., Derby
Birmingham Iron Foundry
Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Trenton
Crossley Machine Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway

Rubber Composition

Ohio, Akron
Goodrich Co., B. F.

Rubber Goods

N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.
Watters Laboratories, Cons., 55 5th Ave.

Rubber, Hard

Mass., Andover
Tyer Rubber Co.
N. J., New Brunswick
India Rubber Co.
N. J., Trenton
Stokes Rubber Co., Jos.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F., The

Rubber Mill Machinery

Conn., Ansonia
Farrell Foundry & Machine Co.
Conn., Derby
Birmingham Iron Foundry
Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. J., Trenton
Crossley Machine Co.
N. Y., New York City
American Process Co., 68 William St.
Abbe Engineering Co., 220 Broadway
Ohio, Akron
Williams Foundry & Machine Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Pa., Philadelphia
Southwark Foundry & Machine Co.

Rubber Reclaiming Machinery

N. Y., New York City
American Process Co., 68 William St.

Rubber, Sheet

N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Rubber Solution Machines

Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Rubber Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Rubber Washing Machines

Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Saccharimeters

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
N. Y., Rochester
Bausch & Lomb Optical Co., St. Paul St.
Ill., Chicago
Wagner, Carl H., 1944 N. Albany Ave.

Safes, Amalgam

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.

Safety Devices (*see also Specific Headings*)

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Salt Machinery

Ill., Chicago
Stroud & Co., E. H., Fullerton Bldg.
Mich., Saginaw
Willcox Engineering Co.
Pa., Wilkes-Barre
Vulcan Iron Works

Samplers, Ore (*see Mining Machinery*)

Samplers, Tailings (*see Mining Machinery*)

Sand Blast Accessories

Md., Hagerstown
Pangborn Corp.

Sand Blast Apparatus

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.
Md., Hagerstown
Pangborn Corp.
N. Y., New York City
American Foundry Equipment Co., 52 Vanderbilt Ave.
De La Vergne Machine Co., 1123 E. 138th St.
Ohio, Cincinnati
Macleod Co., Bogen St.

Sand Blast Rooms

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.
Md., Hagerstown
Pangborn Corp.
N. Y., New York City
American Foundry Equipment Co., 52 Vanderbilt Ave.

Scales, Analytical (*see Balances, Analytical*)

Scales, Assay (*see Balances, Assay*)

Scales, Automatic

Ill., Chicago
Fairbanks-Morse & Co., 900 S. Wabash Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Newark
Automatic Weighing Machine Co., 134-140 Commerce St.
N. J., Passaic
Richardson Scale Co.
N. Y., New York City
American Kron Scale Co., 430 E. 53d St.
Fairbanks Co., 416 Broome St.
Howe Scale Co., 341 Broadway
Ohio, Toledo
Toledo Scale Co.

Scales, Automatic Liquid

N. Y., New York City
Simmons Co., John, 110 Center St.

Scales, Charging Crane

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Conveyor

Mass., Boston
Sturtevant Mill Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Electric Weighing Co., 180 13th St.

Scales, Crane

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Dairy

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Dormant

Mass., Boston
Sturtevant Mill Co.
N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Drug

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Fluid Pressure

Mass., Boston
Crosby Steam Gage & Valve Co., 40 Central St.
Sturtevant Mill Co.

Scales, Hanging Pan

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Hopper

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Industrial (*see also Scales, Automatic*)

Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Laboratory (*see Balances*)

Scales, Mine

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.
Mass., Boston
Sturtevant Mill Co.

Scales, Monorail

Mass., Boston
Sturtevant Mill Co.

Scales, Platform

Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.
N. Y., New York City
Chatillon & Sons, John, 85 Cliff St.
Fairbanks Co., 416 Broome St.
Howe Scale Co. of N. Y., 341 Broadway
Pa., Pittsburgh
Standard Scale & Supply Co., 1631 Liberty Ave.

Scales, Portable

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Railroad

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.
Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Tank

N. Y., Buffalo
Buffalo Scale Co., The, 1200 Niagara St.

Scales, Textile

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Water

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Scientific Instruments (*see Apparatus. See also Specific Headings*)

Scleroscopes

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Scoops, Horn

Ill., Chicago
American Indicator Paper Co.

Scorifiers

Colo., Denver
Denver Fire Clay Co.
Mine & Smelter Supply Co.
N. J., Jersey City
Dixon Crucible Co., Joseph

Scourers (*see Textile Machinery*)

Screening Machinery

Md., Baltimore
Bartlett Hayward Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Screens, Acid Proof

Ill., Aurora
Stephens-Adamson Mfg. Co.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Sturtevant Mill Co., Harrison Sq.
Mich., Detroit
Michigan Wire Cloth Co., 536 Howard St.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 255 W. 19th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Alkali Proof (*see Screens, Acid Proof*)

Screens, Cement

Ill., Chicago
Caldwell & Gore Co., H. W., 17th St. and Western Ave.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
N. J., Newark
Newark Wire Cloth Co., 222-28 Verona Ave.
N. Y., New York City
Multi-Metal Co., Inc., 255 W. 19th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Coal (*see Screens, Mining*)

Screens, Filter

Ill., Chicago
American Wire Fabrics Co.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Mich., Detroit
Detroit Wire Cloth Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Ohio, Cleveland
Cleveland Wire Cloth & Mfg. Co.
Tyler Co., W. S., Superior Ave. and 36th St.

Screens, Impact

Colo., Denver
Colorado Iron Works Co.

Screens, Inclined, Vibrating

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.

Screens, Mining

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Caldwell & Son Co., W. H.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Clinton Wire Cloth Co., Sears Bldg.
Mo., St. Louis
Ludlow-Saylor Wire Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. N.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Screens, Newaygo

Mass., Boston
Sturtevant Mill Co., Harrison Sq.

Screens, Oil (*see Screens, Filter*)

Screens, Ore (*see Screens, Mining*)

Screens, Perforated Metal

Ill., Chicago
Harrington & King Perforating Co., 640 N. Union Ave.
Pa., Carbondale
Hendrick Mfg. Co., 39-75 Dundaff St.
Wis., Milwaukee
Nortmann Duffke Fdy. Co., 1210 27th Ave.

Screens, Revolving

Colo., Denver
Colorado Iron Works Co.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Michigan Wire Cloth Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Screens, Rolled Wire

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Screens, Rolling

Colo., Denver
Colorado Iron Works Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Screens, Rotary (*see Screens, Revolving*)

Screens, Sand (*see Screens, Mining*)

Screens, Shaking (*see Screens, Rolling*)

Screens, Slot

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Screens, Vibrating

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Md., Baltimore
Bartlett Hayward Co.
N. Y., New York City
Day & Co., J. H.

Screens, Wire Cloth *see* (*Wire Cloth*)

Scrubbers, Gas

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., New York City
Foundation Co., The, Woolworth Bldg.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
Blair, Campbell & McLean Inc., Colonial Trust Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Sealing Machinery

Md., Baltimore
Crown Cork & Seal Co.
N. J., Newark
Automatic Weighing Machine Co., 134 Commerce St.

Searchlights

N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Schenectady
General Electric Co.

Seats, Lead

Pa., Philadelphia
Monarch Mfg. Works, Inc., 3129 Emery St.

Sensitizing Machinery

Ill., Chicago
Pease Co., C. F., 219 W. Institute Place

Separators, Air

Ill., Chicago
Raymond Bros., Impact Pulverizer Co., 1327 North Branch St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park

Separators, Ammonia

N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Worthington Pump & Machinery Corp., 115 Broadway

Separators, Centrifugal (*see Centrifugals*)

Separators, Dairy

Ill., Chicago
Albaugh-Dover Co., 2106 Marshall Blvd.
Creamery Package Mfg. Co., 61 W Kinzie St.
N. Y., Little Falls
Burrell & Co., D. H.
N. Y., New York City
De Laval Separator Co., 167 Broadway
Pa., West Chester
Sharples Separator Co., The

Separators, Electrostatic

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.

Separators, Inclined, Vibrating

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Separators, Laboratory Magnetic

Wis., Milwaukee
Dings Magnetic Separator Co., 671 Smith St.

Separators, Magnetic

Colo., Denver
Stearns-Rogers Mfg. Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
K-B Pulverizer Co., Inc., 70 Worth St.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Dienelt & Eisenhardt Co., Inc., 1304 N. Howard St.
Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.
Dings Magnetic Separator Co., 671 Smith St.
Magnetic Mfg. Co., 764 Windlake Ave.

Separators, Moisture (*see Separators, Steam*)

Separators, Oil

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Ill., Quincy
Gardner Governor Co.
Mass., Boston
American Tool & Machine Co., 10 High St.
N. J., Camden
Webster & Co., Warren
N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Griscom-Russell Co., 90 West St.
Pa., Philadelphia
Harrison Safety Boiler Works, 3130 N. 17th St.

Separators, Ore (*see also Screens, Mining*)

Wis., Milwaukee
Dings Magnetic Separator Co., 333 South St.

Separators, Screen (*see Screens, Various Headings*)

Separators, Soil

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Separators, Steam

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Iowa, Marshalltown
Fisher Governor Co., 201 S. 1st Ave.
Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Provost Engineering Corp., 220 Broadway
Sarco Co., Inc., Woolworth Bldg.
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Harrison Safety Boiler Works

Separators, Vibrating

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Settlers, Matte

Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Dorr Co., 101 Park Ave.

Sewerage Treatment Plants

N. Y., New York City
Dorr Co., 101 Park Ave.

Shafting

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Youngstown
Republic Iron & Steel Co.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Pa., Pittsburgh
Jones & Laughlin
National Tube Co., Frick Bldg.
Pa., Williamsport
Valley Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Shakers

Mass., Brighton
International Equipment Co., 352 Western Ave.

Shakers, Sieve

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Sheet Metal

Conn., Bridgeport
Bridgeport Brass Co.
Wis., Milwaukee
Geuder, Paeschke & Frey Co., St. Paul and 15th Sts.

Sheet Metal Products

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Battle Creek
Michigan Metal Products Co., 20th and Morr Sts.
Ohio, Canton
Berger Mfg. Co.

Sheet Work Apparatus

N. Y., New York City
Furman-Fisher Corporation, 30 Church St.

Sheets, Aluminum Coated Steel

N. Y., New York City
*Rebele, L. J., 50 Church St.

Sheets, Black

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Brass and Bronze

Conn., Waterbury
Randolph-Clowes, Co., The

Sheets, Brass, Copper, Bronze

Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Sheets, Corrugated

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Galvanized

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Galvanized, Copper Steel

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Hard Rubber

N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.

Sheets, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Sheets, Muntz Metal

Conn., Waterbury
Randolph-Clowes Co., The

Sheets, Polished Steel

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Pure Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Sheets, Vulcanized Fibre

Pa., Bridgeport
Diamond State Fibre Co.

Shells, Brass and Copper, Seamless

Conn., Waterbury
Randolph-Clowes Co., The

Shelves, Metal

Ill., Aurora
Lyon Metallic Co.
Ill., Chicago
Durand Steel Locker Co.
Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
Mass., Framingham
Manufacturing Equipment & Engraving Co.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Pa., Philadelphia
Lupton & Sons Co., David

Shelves, Wrought Steel

Conn., New Britain
Hart & Cooley Co.

Shingles, Metal

Ohio, Canton
Berger Mfg. Co.

Shoes, Wooden

N. Y., New York City
Estes & Sons, E. B., 75 Warren St.

Shovels, Power

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., 39th St. and Stewart Ave.

Shredders

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
N. Y., New York City
Abbé, Paul O., 30 Broad St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Shutters, Automatic

Ill., Chicago
Ilg Electric Ventilating Co.

Sieves, Experimental (*see also Screens*)

N. J., Newark
Newark Wire Cloth Co.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Ohio, Cincinnati
Day & Co., J. N., 1144 Harrison Ave.

Sieves, Laboratory Testing

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.

Sifters

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Mo., St. Louis
Ludlow-Saylor Wire Co.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Lockland
Gedge-Gray Co.
Pa., Muncy
Sprout, Waldron & Co.

Sifting Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Mass., Boston
Holmes & Blanchard Co., 31 State St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Sil-O-Cel Products

N. Y., New York City
Celite Products Co., 11 Broadway

Silos

Md., Baltimore
Baltimore Cooper Co., The
Ohio, Cincinnati
Hauser-Stander Tank Co.
Pa., Philadelphia
Paxson Co., J. W., 1021 N. Delaware Ave.

Silica, Fused

Ill., Chicago
Schaar & Co., 1025 S. State St.
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Pittsburgh
Harbison-Walker Refractories Co.

Silica Sand

Ill., Chicago
United States Silica Co., 419 People's Gas Bldg.

Silica Ware

N. J., Newark
Hanovia Chemical & Mfg. Co.
N. Y., New York City
Palo Co., 90-94 Maiden Lane
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Sinks, Acid Proof

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Sinks, Steel

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. Y., New York City
Duriron Castings Co., 90 West St.

Sinks, Stoneware

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Sinks, Wood

Ill., Chicago
Eagle Tank Co., 1315 W. 21st Pl.

Sintering Machines

N. Y., New York City
Dwight & Lloyd Sintering Co., 29 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Sizers *(see Screens and Classifiers)*

Colo., Denver
Colorado Iron Works Co.

Smelters

Cal., San Francisco
Selby Smelting & Lead Co.
Ill., Chicago
Chicago Retort & Fire Brick Co., 208 S. La Salle St.
Goldsmith Bros. Smelting & Refining Co.
Ill., Danville
Hegeler Zinc Co.
Ill., La Salle
Matthiessen & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Mass., Boston
U. S. Smelting, Refining & Mining Co., 55 Congress St.
Mich., Detroit
Detroit Metal Refining Co., 452-470 Lawton St.
Mo., St. Louis
Edgar Zinc Co., 314 N. Broadway
N. J., Newark
Balbach Smelting & Refining Co., 580 Market St.
N. Y., New York City
American Smelting & Refining Co.
Eagle Smelting & Refining Works, Woolworth Bldg.
Nassau Smelting & Refining Works, 607 W. 29th St.
Ohio, Cleveland
Grasselli Chemical Co.
National Smelting Works, 6800 Grant Ave.
Pa., Pittsburgh
Pennsylvania Smelting Co., Benedum-Trees Bldg.
Pittsburgh Smelting & Refining Co., Elizabeth and B. & O. R. R.
Wash., Tacoma
Tacoma Smelting Co.

Smelting Machinery

Cal., Los Angeles
Llewellyn Iron Works, North Main and Redondo Sts.
Cal., Oakland
Senn Concentrator Co.
Cal., San Francisco
Pacific Foundry Co., 18th and Harrison Sts.
Union Iron Works Co., 260 California Ave.
Colo., Denver
American Zinc Ore Separating Co., 1218 Foster Bldg.
Colorado Iron Works Co.
Dorr Co., Cooper Bldg.
Mine & Smelter Supply Co.
Morse Bros. Machinery & Supply Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Sts.
Sullivan Machinery Co.
N. Y., Brooklyn
Improved Appliance Co., 413-415 Kent Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Ohio, Columbus
Jeffrey Mfg. Co., 954 N. 4th St.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Smoke Breechings

N. Y., New York City
Dover Boiler Works, 55 Church St.

Smoke Consuming Apparatus

N. Y., Mechanicsville
Mechanicsville Specialty Supply Mfg. Co.

Smoke Stacks (*see Stacks*)

Sockets

Ohio, Cleveland
Cleveland Twist Drill Co.

Soapstone

N. C., Asheville
Georgia Talc Co.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Talc Products Co., 11 Pine St.
Tenn., Chattanooga
American Lava Co.

Soda Driers

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Soda Reclaiming Systems

N. Y., Buffalo
Zaremba Co., Morgan Bldg.
N. Y., New York City
Dorr Co., 101 Park Ave.

Solders

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.

Solders, Gold, Silver, Platinum

Conn., Hartford
Ney Co., J. M.
Pa., Philadelphia
Hagstoz & Son, T. B., 709 Sansom St.

Solenoids

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Solvent Recovery Plants

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
General Ceramics Co., 50 Church St.
Roos' Son, August, 429 E. 91st St.
N. Y., Rochester
Pfaudler Co., The
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Blair Campbell & McLean, Inc., Colonial Trust Bldg.
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Spatulas

Colo., Golden
Herold China & Pottery Co.
Conn., New Britain
Landers, Frary & Clark
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Ohio, Cambridge
Guernsey Earthware Co.
Ohio, Columbus
Laboratory Supply Co.
Ohio, Zanesville
Ohio Pottery Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Spatulas, Horn

Ill., Chicago
American Indicator Paper Co.

Spatulas, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Specific Gravity Apparatus

N. Y., New York City
Squibb & Sons., E. R., 80 Beekman St.

Spectroscopes

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.
*Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Speedometers

Conn., Hartford
Veeder Mfg. Co.
Ill., Chicago
Stewart-Warner Speedometer Co.
Mass., Boston
Standard Thermometer Co., 65 Shirley St.

Sphygmomanometers

Ill., Chicago
*Physicians Laboratory Supply Co., 119-121 N. Wabash Ave.

Spigots

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Spigots, Acid Proof

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Splints, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Sponges

Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., New York City
American Sponge & Chamois Co., Inc., 73 Wooster St.
Eimer & Amend, 205-211 3d Ave.
*Lasker & Bernstein, Inc., 161 William St.

Sponges, Rubber

N. Y., New York City
Borgfeldt & Co., Geo., 16th and Irving Pl.
Ohio, Akron
Miller Rubber Co.
Ohio, Ashland
Faultless Rubber Co.

Spoons, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Spoons, Horn

Ill., Chicago
American Indicator Paper Co.

Spoons, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., J., Platinum Works

Spouts

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Spray Cooling Systems *(see also Cooling Systems)*

Ill., Chicago
Star Brass Works, 3114-3120 Carroll Ave.
Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., New York City
Carrier Air Conditioning Co. of America, 490 Broadway

Spray Nozzle Installation

N. Y., New York City
Cooling Tower Co., Inc., The, 17 John St.

Spray, Nozzles

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprayers, Oil Paint

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Spraying Systems, Paint

Mass., Boston
Spray Engineering Co., 93 Federal St.

Sprays, Atomizing

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Brass, Steel, Iron, Monel Metal

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Chemical and Industrial Purposes

N. Y., Long Island City
Anthony Co., 138 West Ave.
Pa., Philadelphia
Monarch Mfg. Works, Inc., 3129 Emery St.

Sprays, Hard Rubber

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Oil

N. Y., Long Island City
Anthony Co., 138 West Ave.

Sprays, Re-cooling,

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Stoneware,

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprinkler Systems, Fire, Automatic

N. Y., New York City
Automatic Sprinkler Co. of America, 123 William St.
Pa., Philadelphia
Globe Automatic Sprinkler Co., 2035 Washington Ave.
R. I., Providence
General Fire Extinguisher Co., 275 W. Exchange St.

Sprinklers, Park

Mass., Boston
Spray Engineering Co., 93 Federal St.

Sprinklers, Plant

Mass., Andover
Tyer Rubber Co.

Stacks

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J., 710 S. Caroline St.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Dover Boiler Works, 55 Church St.
Standard Tank Co., 15 Park Row
Ohio, Cincinnati
Houston-Stanwood & Gamble Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keller Co., E.
Wis., Milwaukee
Milwaukee Boiler Works

Stains, Microscopical

Ill., Chicago
*Physicians Laboratory Supply Co., 119–121 N. Wabash Ave.

Stamp Mills (*see Mining Machinery*)

Standpipes

Cal., Los Angeles
Llewellyn Iron Works
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Fairbanks-Morse & Co.
Mich., Saginaw
Wickes Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Stands, Floor

N. Y., Elmira
Kennedy Valve Mfg. Co.

Stands, Laboratory (*see Laboratory Apparatus and Equipment*)

Stands, Retort

Ill., Chicago
Stoelting Co., C. H., 3037 Carroll Ave.

Starch Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Pa., Philadelphia
Remmers & Sons, B., 1227 Germantown Ave.

Starters, Automatic Motor

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Starters, Electric Motor

Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Starters, Motor

Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Steel Plates

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Illinois Steel Co.
Ind., East Chicago
Graver Tank Works, Wm.
Iowa, Des Moines
Des Moines Bridge & Iron Works
Mo., St. Louis
Stubb Bros. Bridge & Iron Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Standard Tank Co., 15 Park Row
Stevens Bros., Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Leetonia
Leetonia Boiler Works
Ohio, Steubenville
La Belle Iron Works
Pa., Chester
Wetherill & Co., Robert

Steel Plates—*cont.*

Pa., Coatesville
Coatesville Boiler Works
Lukens Iron & Steel Co.
Pa., Philadelphia
Cambria Steel Co.
Pa., Pittsburgh
Carnegie Steel Co.
Jones & Loughlin Co.
Pa., Sharon
Petroleum Iron Works Co.

Steel Testing Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Sterilization Serum Plants

Pa., West Chester
Sharples Specialty Co., The

Sterilizers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
Mohr & Sons, John, 349-359 W. Illinois St.
Physicians' Laboratory Supply Co., 1234 Marshall Field Annex Bldg.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
Pa., Scottsdale
Electric Water Sterilizer Co.
N. Y., Brooklyn
Silver & Co., 304 Hewes St.
N. Y., Buffalo
Hygeia Nursing Bottle Co.
N. Y., New York City
Dougherty, J. T., 409 W. 59th St.
Eimer & Amend, 205-211 3d Ave.
*Hospital Supply Co., 53 5th Ave.
Maris & Co., J. M., 40 Barclay St.
N. Y., Rochester
Wilmot Castle Co.
Ohio, Alliance
Reeves Bros. Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 719 Forbes St.

Sterilizers, Laboratory, Hot Air

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Sterilizers, Test Tube

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Stills, Chemical

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Unger, John S., 3344 Broadway
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts Ave.
Little Co., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. C., Charlotte
Chemical Construction Co.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Brooklyn
Ross & Sons Co., Charles
N. Y., Buffalo
Buffalo Engineering Co.
Devine Co., J. P., 1366 Clinton St.
Sowers Mfg. Co.
Zaremba Co.
N. Y., New York City
Abbe, Paul O., New St. and Exchange Pl.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Kalbperry Corp., 31 Union Sq., W.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August, 429 E. 91st St.
Stevens Brothers, 149 Broadway
Thermal Syndicate, Ltd., The, 50 E. 41st St.
United Lined Tube & Valve Co., 120 Broadway
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, Cleveland
Steel Improvement & Forge Co., 5000 Winsor Ave.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.

Stills, Chemical—*cont.*

Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Philadelphia
Blair Campbell & McLean, Inc., Colonial Trust Bldg.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Scientific Materials Co., 717 Forbes St.
Pa., Williamsport
Keeler Co., E.
Valley Iron Works
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Stills, Mercury

Mass., Boston
Knott Apparatus Co., L. E., Cambridge "A" Station
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Stills, Oil

Ill., Chicago
Unger, John S., 3344 Broadway
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Stills, Phenol

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
Ind., Fort Wayne
Western Gas Construction Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.

Stills, Platinum

N. J., Newark
American Platinum Works
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., J., Platinum Works

Stills, Steam Jacketed

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Mich., Detroit
Colton Co., Arthur
Pa., Conshohocken
Wood Mfg. Co., John

Stills, Tar (*see Stills, Oil*)

Stills, Turpentine

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Alliance
Reeves Bros. Co.

Stills, Vacuum

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Mass., Boston
Lummus Co., The Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Burlington
Stuart & Peterson Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Mott Iron Works, J. L., 118 Fifth Ave.
Turl Iron & Car Co., Inc., 50 Broad St.
United Lined Tube & Valve Co., 120 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., Williamsport
Valley Iron Works

Stills, Welded

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Pa., Carbondale
American Welding Co.

Stills, Water

Ill., Chicago
Acme Water Still Co.
Daigger & Co., A., 52-56 W. Kinzie St.
Laboratory Materials Co., 640 E. 71st St.
Sargent Steam Meter Co., 2835 Armitage Ave.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Colton Co., Arthur
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Burkhard, Inc., Thomas
Improved Appliance Co., 413-419 Kent Ave.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
United Lined Tube & Valve Co., 120 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.

Stills, Water, Automatic

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Stills, Wooden

Ohio, Cincinnati
Hauser-Stander Tank Co.

Stirrers

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Gerdes & Co., Inc., 36 Church St.
Koven & Bro., L. O., 50 Church St.
Roos Son, August, 429 E. 91st St.
United Lined Tube & Valve Co., 120 Broadway
N. Y., Niagara Falls
Acheson Graphite Co.
N. Y., Rochester
Pfaudler Co., The
Ohio, East Akron
Knight, Maurice A.
Pa., Williamsport
Valley Iron Works

Stirrers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.

Stokers

N. Y., New York City
Combustion Engineering Corp., 11 Broadway
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Fullerton
Fuller-Lehigh Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Stokers, Bituminous Coal

N. Y., New York City
Combustion Engineering Corp.
Pa., Fullerton
Fuller-Lehigh Co.

Stokers, Powdered Coal

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Stones, Sharpening

Ill., Chicago
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Mass., Waltham
Superior Corundum Wheel Co.
N. Y., Niagara Falls
Carborundum Co.

Stoneware, Acid Proof

Cal., San Francisco
Steiger Terra Cotta & Pottery Works, Mills Bldg.
Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Henderson Co., 9 Preston Drive
N. Y., Brooklyn
Graham Chemical Pottery Works, Chas., 986 Met. Ave.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Behrend, F., 54 Front St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Machinery Utilities Co., Inc., 501 5th Ave.

Stoneware, Acid Proof—*cont.*

Ohio, Akron
Robinson Clay Product Co.
United States Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Remmey Sons Co., Richard C, Hedley and Delaware River Bldg.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-19 Forbes St.

Stopcocks

N. J., Millville
Wheaton Co., T. C.
N. J., Trenton
Luzerne Rubber Co.
N. J., Vineland
Doerr Glass Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
Goodrich Co., B. F.
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.

Stopper-Heads, Graphite

Pa., Philadelphia
Seidel, Inc., R. B., 1322 Callowhill St.

Stoppers, Carboy, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Stoppers, Glass (*see Glass, Chemists*)

Stoppers, Laboratory, Pure Gum

Ohio, Akron
Goodrich Co., B. F.

Stoppers, Laboratory, Semi-Pure Gum

Ohio, Akron
Goodrich Co., B. F.

Stoppers, Rubber

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Stopples, Laboratory

Ohio, Ashland
Faultless Rubber Co.

Stops, Electric Limit

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Stoves, Alcohol

N. J., Newark
Alpha Alcohol Utensil Co., 367 N. 5th St.

Stoves, Hot Blast

Colo., Denver
Colorado Iron Works Co.

Stoves, Sterilizer

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Stoves, Testing

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Strainers, Acid (*see also Screens*)

Mass., Boston
Clinton Wire Cloth Co., Sears Bldg.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
General Ceramics Co., 50 Church St.
Multi Metal Co., Inc., 255 W. 19th St.
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cleveland
Tyler Co., W. S.

Strainers, Air

N. Y., New York City
Sarco Co., Inc., 229 Broadway
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen Ave.

Strainers, Bronze, Chemetal

N. Y., L. I., Rockville Center
Nassau Valve & Pump Co., Inc.

Strainers, Gasoline

N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Strainers, Lead

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Strainers, Oil

N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Multi Metal Co., Inc., 255 W. 19th St.

Strainers, Steam

Ill., Decatur
Mueller Mfg. Co., H.
N. Y., New York City
Sarco Co., Inc., 229 Broadway

Strainers, Twin

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Strainers, Water

Conn., Waterbury
Waterbury Mfg. Co.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
Pa., Pittsburgh
Elliott Co., 6915 Susquehanna St.
Pittsburgh Valve, Foundry & Construction Co.
Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Strainers, Water (Conveying)

Ill., Chicago
Link-Belt Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Structural Steel Work (*see Steel Plates*)

Suction Apparatus

N. Y., Rochester
Will Corporation

Sugar Machinery

Colo., Denver
Stearns-Roger Mfg. Co.
Del., Wilmington
Pusey & Jones
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
La., New Orleans
Joubert & Goslin Machine & Foundry Co.
Murphy Iron Works, John H.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Bay City
MacKinnon Boiler & Machinery Co.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
Squier Mfg. Co., Geo. L.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Treadwell Co., M. H., 140 Cedar St.
U. S. and Cuban Allied Works Eng. Corporation, 50 Broad St.
Ohio, Cleveland
Kilby Mfg. Co., 4623 Lakeside Ave.
Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.
Oat & Sons, Joseph, 232 Quarry St.
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Suits, Acid Resisting

Ohio, Akron
Goodrich Rubber Co., B. F., S. Main St.

Sulphate Pulp Plants (*see Paper Machinery*)

Sulphite Pulp Plants (*see Paper Machinery*)

Sulphite-Waste Recovery Plants

N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Sulphonators

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P., 1372 Clinton St.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Sulphur Black Plants

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Sulphur Blue Plants

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Sulphur Referee's Apparatus

N. Y., Rochester
Will Corporation

Superheaters

Wis., Milwaukee
Dravo Co., 1195 30th St.

Superheaters, Portable

Ohio, Cleveland
Eureka Machine Co., 2610 Vega Ave.

Surveying Instruments

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.
N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Troy
Gurley, W. & L. E.

Switchboard Equipment

Mass., South Boston
Condit Electrical Mfg. Co.
N. J., Newark
Weston Electrical Instrument Co.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Switches, Electric

Mich., Detroit
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
N. Y., Albany
Consolidated Car Heating Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Switches, Electric Motor

Mass., South Boston
Condit Electrical Mfg. Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Switches, Motor Protective

Mass., South Boston
Condit Electrical Mfg. Co.

Switches, Oil

Mass., South Boston
Condit Electrical Mfg. Co.

Switches (Pyrometer)

N. Y., Rochester
Taylor Instrument Cos.

Synchroscopes

N. J., Newark
Weston Electrical Instrument Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Syphons, Acid

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. J., Vineland
Doerr Glass Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Schwenker, Inc., W. M., 340-344 E. 92d St.
Sidio Co. of America, Inc., 37 Murray St.
Standard Scientific Co., 147 Waverly Pl.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Syphons, Steam

N. Y., New York City
Duriron Castings Co., 90 West St.

Syphons, Lead, with Stoneware Steam Nozzle

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Syringes, Bulb

Mass., Andover
Tyer Rubber Co.

Syringes, Glass

Mass., Boston
Randall, Faichney & Co.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Maris & Co., J. M., 40 Barclay St.

Syringes, Hard Rubber

Mass., Andover
Tyer Rubber Co.
N. J., Belleville
Hardman Tire & Rubber Co.
N. Y., New York City
American Hard Rubber Co., 111 Mercer St.

Syringes, Storage Battery Hydrometer

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Table Tops, Laboratory

Ill., Chicago
Vitrolite Co., 133 W. Washington St.

Tables, Brazing

Iowa, Cedar Rapids
Johnson Gas Appliance Co.
N. Y., Brooklyn
Improved Appliance Co., 413-419 Kent Ave.

Tables, Bumping

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.

Tables, Concentrating (*see Concentrators, Ore*)

Tables, Laboratory

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
Peterson & Co., Leonard, 1240 Fullerton Ave.
N. Y., New York City
Alberene Stone Co., 223 W. 23d St.
Hospital Supply Co., 53 5th Ave.
Vt., Burlington
Champlain Mfg. Co.

Tables, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.

Tables, Transfer

Ill., Harvey
Whiting Foundry Equipment Co.

Tablet Compressing Machines

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Tachometers, Indicating

Conn., Hartford
Veeder Mfg. Co.
Conn., Waterbury
Bristol Co.
Mass., Ashland
Lombard Governor Co.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Schuchardt & Schutte, 90 West St.
Wilson-Maeulen Co., 781 E. 142d St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.
Electric Tachometer Corp., Perry Bldg.
Queen-Gray Co., 618-620 Chestnut St.

Tachometers, Mercurial

Pa., Philadelphia
Brown Instrument Co.

Tachometers, Recording (*see Tachometers, Indicating*)

Tachoscopes

N. Y., New York City
Schuchardt & Schutte, 90 West St.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.

Tanks, Acetylene (*see Tanks, Gas*)

Tanks, Acid

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
Colo., Denver
Colorado Iron Works Co.
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd.
Ga., Newnan
Cole Mfg. Co., R. D.
Ill., Batavia
Sperry & Co., D. R.
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Eagle Tank Co., 2426 N. Crasford Ave.
Ind., East Chicago
Graver Tank Works, Wm.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co.
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Kalamazoo
Kalamazoo Tank & Silo Co.
N. J., East Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Corcoran, Inc., A. J., 763 Vesey St.
Koven & Bro., L. O., 200 Ogden Ave.
N. J., New Brunswick
India Rubber Co.
N. Y., Brooklyn
Buffalo Engineering Co.
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Akerlund & Semmes, Inc., 17 Battery Pl.
Dover Boiler Works, 55 Church St.
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
General Ceramics Co., 50 Church St.
Standard Tank Co., 15 Park Row
Stevens Bros., 149 Broadway
United Lined Tube & Valve Co., 120 Broadway
N. Y., Rochester
Pfaudler Co., The
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. &. O. R. R.
Goodrich Co., B. F.
U. S. Stoneware Co.
Weeks, A. J.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Ohio, Dayton
Buckeye Boiler Co., 1617 McLain St.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Ohio, Warren
Warren City Tank & Boiler Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Fuller-Lehigh Co.
Pa., Hamburg
Hamburg Boiler Works, Grand St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Tanks, Acid Resisting, Enameled

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Tanks, Air

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Sullivan Machinery Co.
Ind., Fort Wayne
Western Gas Construction Co.
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Muskegon
Muskegon Boiler Works

Tanks, Air—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Coatesville
Coatesville Boiler Works
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Aluminum

N. Y., Buffalo
Devine Co., J. P.
Pa., Pittsburgh
Aluminum Co. of America

Tanks, Ammonia

Ind., Fort Wayne
Western Gas Construction Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Anhydrous-Ammonia

Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Blow

Ind., East Chicago
Graver Tank Works, Wm.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Brine

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Car

N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Niles
Standard Boiler & Plate Iron Co.

Tanks, Carbonating

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

Tanks, Carbonic Acid Gas

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
Ill., Batavia
Sperry & Co., D. R.
Ind., Fort Wayne
Western Gas Construction Co.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co.
Bartlett Hayward Co.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Fullerton
Fuller-Lehigh Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keeler Co., E.

Tanks, Chlorine

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Compressed Air

Ind., Fort Wayne
Western Gas Construction Co.
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Concrete, Oil Storage
Mich., Detroit
Steere Engineering Co., Woodward Ave.

Tanks, Copper
Ky., Louisville
Caldwell Co., W. E.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Griscom-Russell Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Roos' Sons, August, 429 E. 91st St.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.
Ott Co., George F., 213 Buttonwood St.

Tanks, Copper Lined (*see Tanks, Copper*)

Tanks, Creosoting
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Tanks, Crystallizing
N. Y., Buffalo
Devine Co., J. P.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Cyanide (*see also Tanks, Acid Proof*)
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett Hayward Co.

Tanks, Decantation
Colo., Denver
Colorado Iron Works Co.

Tanks, Dipping
England, Deepfields, nr. Bilshire, Staffs
Cannon Iron Foundries, Ltd.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Dissolving (*see also Tanks, Acid*)
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
International Process Co., 5 Beekman St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Dissolving, Automatic
Mass., Boston
Lummus Co., The Walter E.

Tanks, Drip
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Drowning
N. Y., Olean.
Luther Mfg. Co., 133 Railroad Ave.

Tanks, Dyes
Ind., East Chicago
Graver Tank Works, Wm.
Ky., Louisville
Caldwell Co., W. E.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Elevator
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Expansion
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Filter
N. J., Garwood
Beckley Perforating Co., North Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Fuel Oil

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Tanks, Galvanized

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Detroit
Detroit Range Boiler Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A J.
Ohio, East Akron
Knight, Maurice A.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Gas

Ind., Fort Wayne
Western Gas Construction Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Welding Supply Co., Inc., 132 Nassau St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Tanks, Gasoline Storage

Ind., Fort Wayne
Western Gas Construction Co.
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Dayton
Buckeye Boiler Co., 1617 McLain St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Glass Enameled (Lead or Steel Lined)

N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.

Tanks, Gravity, Automatic Sprinkler

Md., Baltimore
Baltimore Cooperage Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Half Round

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.

Tanks, Hard Rubber

N. J., Trenton
Luzerne Rubber Co., Muirheid Ave.

Tanks, High Pressure

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Iron (*see Tanks, Cast Iron*)

Tanks, Jacketed

Cal., Los Angeles
Llewellyn Iron Works
Mich., Bay City
MacKinnon Boiler & Machine Co.
Mich., Saginaw
Wickes Boiler Co.
N. J., Garwood
Beckley Perforating Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Turl Iron & Car Co., Inc., 50 Broad St.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Stokes Machine Co., F. J.

Tanks, Lead Lined

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
Ky., Louisville
Caldwell Co., W. E.
N. Y., Brooklyn
Abernethy, John F., 703 Myrtle Ave.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Lead Lined, Wood

Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Mixing

Cal., Los Angeles
Llewellyn Iron Works
Ind., Ft. Wayne
Bowser & Co., S. F.
Western Gas Construction Co.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett Hayward Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Wickes Boiler Co.
N. J., Burlington
Stuart & Peterson
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Dover Boiler Works, 55 Church St.
Standard Tank Co., 15 Park Row
N. Y., Rochester
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Mixing, Enamel Lined

N. Y., Rochester
Pfaudler Co., The

Tanks, Oil

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
England, Widnes
Widnes Foundry Co., Ltd., The
Md., Baltimore
Bartlett Hayward Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Coatesville
Coatesville Boiler Works
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Oil, Fusel

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Oil, Lubricating

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Oil Refining

Ind., Fort Wayne
Western Gas Construction Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Niles
Standard Boiler & Plate Iron Co.

Tanks, Oil Storage

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett Hayward Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Coatesville
Coatesville Boiler Works

Tanks, Oxygen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Paint and Varnish

N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Perforated False Bottoms

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Petroleum

England, Widnes
Widnes Foundry Co., Ltd., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Pickling

N. Y., New York City
General Ceramics Co., 50 Church St.
Duriron Castings Co., 90 West St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Tanks, Plating

Mich., Kalamazoo
Kalamazoo Tank & Silo Co.

Tanks, Pneumatic

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Powder

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Power

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Pressure

Ind., East Chicago
Graver Tank Works, Wm.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Muskegon
Muskegon Boiler Works, Eighth St.
Mo., St. Louis
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
N. J., Garwood
Beckley Perforating Co., North Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Stevens Bros., Singer Bldg.
N. Y., New York City
Dover Boiler Works, 55 Church St.
Standard Tank Co., 15 Park Row
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Tanks, Pressure, Cylindrical Steel

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Rectangular

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
Md., Baltimore
Baltimore Cooperage Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Redwood

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tanks, Rendering

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Rubber Lined

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Self Measuring

Ind., Ft. Wayne
Bowser & Co., Inc., S. F.

Tanks, Sprinkler

Ill., Chicago
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Soda Washing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Steam Jacketed, Agitating

N. Y., Rochester
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Steel

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett Hayward Co.
Codd Co., E. J., 700 S. Caroline St.
Mich., Detroit
Detroit Range Boiler Co.
Welded Steel Barrel Corp.
Mich., Muskegon
Muskegon Boiler Works
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
American Bridge Co., 30 Church St.
Burhorn Co., Edwin, 71 Wall St.
Dover Boiler Works, 55 Church St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Coatesville
Coatesville Boiler Works

Tanks, Steel, Glass Enamel Lined

N. Y., Rochester
Pfaudler Co., The

Tanks, Steel, Galvanized

Md., Baltimore
Baltimore Cooperage Co., The
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Stevens Bros., Singer Bldg.

Tanks, Steel Rendering

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Steel, Seamless

Ohio, Elyrian
Elyria Enameled Products Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Steel, Welded

N. Y., New York City
Cave Welding & Mfg. Co., 32 Liberty St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Stone

Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Tanks, Storage

England, Widnes
Widnes Foundry Co., Ltd., The
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Ind., East Chicago
Graver Tank Works, Wm.
Ind., Ft. Wayne
Wayne Oil Tank & Pump Co.
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett Hayward Co.

Tanks, Storage—*cont.*

Mich., Muskegon
Muskegon Boiler Works, Eighth St.
N. J., Garwood
Beckley Perforating Co.
N. Y., New York City
Dover Boiler Works, 55 Church St.
General Ceramics Co., 50 Church St.
Standard Tank Co., 15 Park Row
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Wis., Milwaukee
Milwaukee Boiler Co., 220 Oregon St.

Tanks, Storage, Cylindrical Steel

Md., Baltimore
Bartlett Hayward Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Oil

Ind., Fort Wayne
Western Gas Construction Co.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Rectangular Open Top

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Storage, Underground

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Tar

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett Hayward Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Tin Lined (*see Tanks, Lead Lined*)

Tanks, Tower

Ga., Newnan
Cole Mfg. Co., R. D.

Tanks, Transportation, Steel

Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Tanks, Turpentine

England, Widnes
Widnes Foundry Co., Ltd.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Vacuum

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water

Cal., San Francisco
Pacific Tank & Pipe Co., 318 Market St.
Ind., Fort Wayne
Western Gas Construction Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Water Cooling

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water, Pneumatic

Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water Storage

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Water Tempering

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.

Tanks, Welded

Ill., Chicago
Mohr & Sons, John, 349-359 W. Illinois St.
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Detroit
Welded Steel Barrel Corp.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Meurer Steel Barrel Co.
N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Pa., Carbondale
American Welding Co.
Pa., Meadville
Phoenix Iron Works Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Wood, Electroplating

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Galvanizing

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Mixing

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Nickelplating

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Photo-developing

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Pickeling

N. J., Jersey City
Corcoran, Inc., A. J., 763 Jersey Ave.

Tanks, Wood, Steep

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.

Tanks, Wooden

Cal. San Francisco
Pacific Pipe & Tank Co., 318 Market St.
Ill., Batavia
Challenge Co.
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
Wendnagel & Co., 22d and Jefferson Sts.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co.
Mich., Kalamazoo
Kalamazoo Tank & Silo Co.
N. J., Hoboken
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.
N. J., Jersey City
Corcoran, Inc., A. J., 763 Vesey Ave.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Ohio, Cincinnati
Hauser-Stander Tank Co., 2118 Division St.
Ore., Portland
National Tank & Pipe Co., 275 Oak St.
Pa., Philadelphia
Woolford Wood Tank Mfg. Co., G., 1429 Chestnut St.

Tanks, Zinc Lined

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tannin Extract Machinery

Pa., Philadelphia
Blair, Campbell & McLean, Inc., Colonial Trust Bldg.

Tanning Machinery

Del., Wilmington
Slocomb & Co., Inc., F. F.
Mass., Boston
Badger & Sons Co., E. B., 73 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Peabody
Turner Tanning Machinery Co.
N. Y., Buffalo
Sowers Mfg. Co.

Tape, Adhesive Transparent

Mass., Framingham
Dennison Mfg. Co.

Tape, Cloth, Gummed

Mass., Framingham
Dennison Mfg. Co.

Tar Dehydrating Apparatus

Pa., Pittsburgh
Koppers Co., H.

Tar Distilling Plants (*see also Stills, Oil*)

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
Md., Baltimore
Bartlett Hayward Co.
Pa., Pittsburgh
Koppers Co., H.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govans

Tar Testing Apparatus

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Tees

Ohio, Akron
Goodrich Co., B. F.

Telescope, Reading

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Temperature Control Instruments (*see also Recorders and Regulators*)

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Test Tubes (*see Tubes, Tests; see Laboratory Apparatus and Equipment*)

Testers (*see Specific Headings*)

Testers, for Butter Fat

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Calorimeter

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gas

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gravity

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Hardness

N. Y., New York City
Holz, Herman A., 1 Madison Ave.
Palo Co., 90 Maiden Lane
Pa., Pittsburgh
*Scientific Materials Co., 711 Forbes St.

Testers, Milk (Babcock)

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Mass., Brighton
International Equipment Co., 352 Western Ave.

Testers, Naphthalene

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Overrun

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Sulphur

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testing Apparatus, By-Product

Pa., Pittsburgh
Scientific Materials Co., 711-19 Forbes St.

Testing Instruments (*see also Specific Headings*)

Testing Machines (*see also Specific Headings*)

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
International Equipment Co., 352 Western Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Holz, Herman A., 1 Madison Ave.
Palo Co., 90-92 Maiden Lane
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., W. Washington Sq.

Thawers

N. Y., Brooklyn
Hauck Mfg. Co., 101-113 11th St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Thermit

N. Y., New York City
Metal & Thermit Corporation, 120 Broadway

Thermocouples (*see Pyrometers*)

Thermometers, Dry Bulb

Conn., Waterbury
Bristol Co.

Thermometers, Electrical

Conn., Waterbury
Bristol Co.
Mass., Foxboro
Foxboro Co., Inc.
Conn., Waterbury
Bristol Co.
N. J., Newark
Hanovia Chemical & Mfg. Co., Chestnut St. and New Jersey Railroad Ave.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and South 5th Sts.
N. Y., New York City
Engelhard, Charles, 30 Church St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.
Leeds & Northrup Co.
Precision Thermometer & Instrument Co., 1434 Brandywine St.
*Thomas Co., Arthur H., W. Washington Sq.
Thwing Instrument Co., 436 N. 5th St.

Thermometers, High Range

N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
N. Y., Rochester
Taylor Instrument Cos.

Thermometers, Indicating

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Laboratory

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Mercurial

Mass., Boston
Standard Thermometer Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and South 5th Sts.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.
Precision Thermometer & Instrument Co., 1434 Brandywine St.

Thermometers, Recording

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 640 E. 71st St.
Schaar & Co., 1025 S. State St.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Crosby Steam Gage & Valve Co., 40 Central St.
Standard Thermometer Co., 65 Shirley St.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Rutherford
Becton, Dickinson & Cos.
N. Y., Brooklyn
Berg Mfg. Co., 3707 12th Ave.
National Gauge Co., 300 Pacific St.
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Thermometers, Recording—*cont.*

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.
Berge, J. & H., 95 John St.
Eimer & Amend, 211 3d Ave.
*Engelhard, Chas., 30 Church St.
Greiner Co., The Emil, Fulton and Cliff Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Scientific Utilities Co., Inc., 84 E. 10th St.

N. Y., Rochester
Taylor Instrument Cos.

Pa., Carbondale
Griebel Instrument Co.

Pa., Philadelphia
Brown Instrument Co.
Caloris Co., 2110 Alleghany Ave.
Philadelphia Thermometer Co., 9th and Arch Sts.
Queen-Gray Co., 616-620 Chestnut St.
Quimby Engineering Co., 450 N. 10th St.
*Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Pa., Pittsburgh
*Scientific Materials Co., 711 Forbes St.

Thermometers, Refrigerating

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Thermometers, Registering (*see Thermometers, Recording*)

Thermometers, Wet Bulb

Conn., Waterbury
Bristol Co.

Thermostats

Conn., Waterbury
Bristol Co.

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
National Regulator Co., 208 S. Jefferson St.
Powers Regulator Co., 5 S. Wabash Ave.

Mass., Boston
Standard Thermometer Co., 65 Shirley St.

Mass., Foxboro
Foxboro Co., Inc.

N. J., Newark
American Thermostat Co., 101 Mechanic St.
Thermo Electric Instrument Co.

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Sarco Co., Inc., 235 Broadway

Pa., Philadelphia
Steele Glass Co., 622 Locust St.

Thermostats, Electric

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Physicians Laboratory Supply Co., 119–121 N. Wabash Ave.

N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.

N. Y., Albany
Consolidated Car Heating Co.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Wis., Milwaukee
Johnson Service Co.

Thickeners

N. Y., New York City
Dorr Co., The, 17 Battery Pl.
Industrial Filtration Corporation, 115 Broadway

Thickeners, Slime

Cal., San Francisco
Oliver Continuous Filter Co., 503 Market St.

Colo., Denver
Colorado Iron Works Co.
Dorr Co.

Ill., Chicago Heights
Chalmers & Williams, Inc.

N. Y., New York City
Dorr Co., 101 Park Ave.

Pa., Allentown
Traylor Engineering & Mfg. Co.

Thimbles, Extraction

Mass., Worcester
Norton Co., New Bond St.

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Tiering Machines

N. J., Jersey City
Revolvator Co., 344-352 Garfield Ave.

Tile, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
Laclede-Christy Clay Products Co., Sulphur and Manchester Aves.
N. Y., New York City
General Ceramics Co., 50 Church St.
Maurer & Son, Henry, 120 E. 23d St.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Tile, Chemical *(see Tile, Acid Proof)*

Tile, Cork

Pa., Pittsburgh
Armstrong Cork Co., 23d and Allegheny River

Tile, Drain

Ind., Evansville
Uhl Pottery Co.

Tile, Fire Clay

Colo., Denver
Denver Fire Clay Co.
Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
Pa., Curwensville
Crescent Refractories Co.

Timers, Interval

Ill., Chicago
Victor Electric Corporation, 236 S. Robey St.

Tin

Ill., Chicago
Great Western Smelting & Refining Co.
Mich., Detroit
Michigan Smelting & Refining Co.
N. J., Arlington
Delaware Tin Corporation
N. Y., Brooklyn
Atlantic Smelting & Refining Co.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Nassau Smelting & Refining Works
United Lined Tube & Lead Co., 111 Broadway

Tin Hydrants

N. Y., Elmira
Kennedy Valve Mfg. Co.

Toluol Plants

Md., Baltimore
Bartlett Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govans

Tongs

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mich., Detroit
Hoskins Mfg. Co., 453 Lawton Ave.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
New Jersey Foundry & Machine Co., 88 West St.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Tongs, Lifting

Mass., Boston
Lummus Co., Walter E., 173 Milk St.

Tools, High Speed

Ohio, Cleveland
Cleveland Twist Drill Co.

Tools, Machine

N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Cincinnati
Houston-Stanwood & Gamble Co., The

Torches, Adjustable

Iowa, Cedar Rapids
Johnson Gas Appliance Co.

Torches, Cutting and Welding

Ind., Indianapolis
Presto-Lite Co.
Mich., Detroit
Clayton & Lambert Mfg. Co.
N. J., Jersey City
Davis-Bournonville Co.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., Brooklyn
Hauck Mfg. Co., 101–113 Eleventh St.
N. Y., New York City
Oxy-Acetylene Appliance Co., 149 Broadway
Ohio, Canton
Sun Vapor & Street Light Co.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Pa., Philadelphia
Hero Mfg. Co.
Pa., Pittsburgh
Carbo-Hydrogen Co.

Torches, Gas

Iowa, Cedar Rapids
Johnson Gas Appliance Co., 520 E. Ave. W.

Torpedoes

Conn., New Haven
Marlin Arms Corp.

Tourills

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, W. J.
Ohio, East Akron
Knight, Maurice A.

Tower Pipe, Bottoms and Intermediators

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Ohio, Akron
U. S. Stoneware Co.

Towers, Absorbing

N. J., Newark
Acid Proof Iron Products Co.
N. Y. Brooklyn
Abernathy, John F., 703 Myrtle Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Acid, Metal

Ky., Louisville
Caldwell & Co., A. E.
Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E.
Mass., Fall River
Scott & Co., Ernest
N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Abernathy, John F., 703 Myrtle Ave.
Duriron Castings Co., 90 West St.
Kalbperry Corporation, 31 Union Square W.
N. C., Charlotte
Chemical Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
New England Tank & Tower Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corporation, 31 Union Square, W.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wash., Tacoma
Far West Clay Co., 224–228 Tacoma Bldg.

Towers, Concentrating

N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.

Towers, Concrete

Ill., Chicago
Weber Chimney Co., 332 S. Michigan Ave.

Towers, Condensing (*see Towers, Cooling*)

Towers, Cooling

Ia., Burlington
Murray Iron Works Co.
Mo., St. Louis
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Cooling Tower Co., 17 John St.
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Pa., Sharon
Petroleum Iron Works Co.

Towers, Denitration (*see also Towers, Acid Proof*)

N. Y., New York City
Duriron Castings Co., 90 West St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Gay-Lussac

N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
Abernathy, John F., 703 Myrtle Ave.
Kalbperry Corporation, 31 Union Square, W.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Electro-Chemical Supply & Eng. Co., 21 S. 12th St.

Towers, Glover

N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Masonry

N. C., Charlotte
Chemical Construction Co.

Towers, Sprinkler, Automatic

Md., Baltimore
Baltimore Cooperage Co., The

Towers, Steel

Cal., Los Angeles
Llewellyn Iron Works
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Wendnagel & Co., 22d and Jefferson Sts.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Baltimore Cooperage Co., The
N. Y., Buffalo
Buffalo Foundry & Machine Co.

Towers, Sulphur, Wood

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Weber Chimney Co., 332 N. Michigan Ave.

Towers, Tanks (*see Tanks, Various Headings*)

Towers, Transmission

Cal., Los Angeles
Llewellyn Iron Works
Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
N. Y., New York City
American Bridge Co., 30 Church St.

Towers, Wooden

Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Md., Baltimore
Baltimore Cooperage Co., The

Track, Industrial

Mich., Detroit
Northern Engineering Works
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Ohio, Cleveland
Lakewood Engineering Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Tractors, Storage Battery

Ohio, Cleveland
Lakewood Engineering Co., Station "G"

Trailers (*see Cars, Industrial*)

Tramrail Equipment

Ill., Harvey
Whiting Foundry Equipment Co.

Tramways, Gravity Surface

Colo., Denver
Colorado Iron Works Co.

Transformers, Electric

Ill., Chicago
Victor Electric Corporation, 236 S. Robey St.
N. J., Newark
American Transformer Co., 174–182 Emmet St.
Weston Electrical Instrument Co.
N. Y., New York City
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.,
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Transits

N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
N. Y., Troy
Gurley, W. & L. E.

Transmission Machinery (*see Conveying Machinery*)

Traps, Air

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ia., Marshalltown
Fisher Governor Co.
N. Y., Brooklyn
Wilfert Co., John, 258 Broadway

Traps, Amalgam

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop St.

Traps, Cast Iron

N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.

Traps, Steam

Ill., Chicago
Crane Co.
Imperial Brass Mfg. Co.
Ia., Marshalltown
Dunham Co.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
d'Este Co., Julian, 26 Canal St.
Sturtevant Co., B. F.
N. J., Camden
Warren Webster & Co.
N. Y., Brooklyn
Acton, John, 118 John St.
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
Sarco Co., Inc., 235 Broadway
Simmons Co., John, 110 Centre St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
Ohio, Cincinnati
Williams Valve Co.
Ohio, Cleveland
Strong, Carlisle & Hammond Co.

Traps, Steam, Vacuum

N. Y., New York City
Sarco Co., Inc., 229 Broadway
Simmons Co., John, 110 Centre St.

Travelers

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.

Trays, Dryer

Ohio, Cleveland
Vitreous Enameling Co., Grant Ave. near 71st St.

Trays, Metal

Ala., Birmingham
American Cast Iron Pipe Co.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Pa., Fullerton
Fuller-Lehigh Co.

Trays, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Trays, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.

Trays, Wooden

N. Y., New York City
Aimone Mfg. Co., 430 E. 23d St.
Stokes & Co., Wm. A., 50 Howard St.
N. J., Rochester
Rochester Stamping Co.

Trees, Hard Rubber

N. J., Trenton
Luzerne Rubber Co., Muirheid Ave.

Triangles

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Trinitrotoluol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.

Tripods

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ingersoll-Rand Co.
N. Y., Troy
Gurley, W. & L. E.

Triturators

N. Y., Newburgh
Coldwell-Wilcox Co.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Cresson-Morris Co., 18th and Allegheny Ave.

Trolleys

Ill., Harvey
Whiting Foundry Equipment Co.

Trommels *(see Screens)*

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Weller Mfg. Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Troughs, Steel

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Turl Iron & Car Co., Inc., 50 Broad St.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., Coatesville
Coatesville Boiler Works

Troughs, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Truck Frames

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Trucks, Electric

N. Y., New York City
General Electric Co.
Ohio, Cleveland
Lakewood Engineering Co.

Trucks, Fibre Receptacles

Pa., Bridgeport
Diamond State Fibre Co.

Trucks, Industrial

Colo., Denver
Colorado Iron Works Co.
Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Harvey
Whiting Foundry & Equipment Co.
Mass., Boston
Sturtevant Co., B. F.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Fairbanks Co.
Howe Scale Co., 341 Broadway

Trucks, Storage Battery

N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Lakewood Engineering Co., Station "G"

Trucks, Vulcanizing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tube Cleaners

Conn., Hartford
Roto Co.
N. Y., Buffalo
General Specialty Co., 291-295 Michigan Ave.
Pierce Co., William B., 45 N. Division St.
N. Y., Troy
Monarch Steam Blower Co.
Ohio, Springfield
Lagonda Mfg. Co., 1809 Sheridan Ave.
Pa., Pittsburgh
Liberty Mfg. Co., 6907 Susquehanna St.

Tube Closers

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Tubes, Acid Condensing

Ala., Birmingham
American Cast Iron Pipe Co.
N. J., Burlington
U. S. Cast Iron & Pipe Co.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Stevens Bros., Singer Bldg.
U. S. Lined Tube & Valve Co., 165 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, Akron
Knight, Maurice A.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Tubes, Acid Condensing, Glass

N. Y., Corning
Corning Glass Works
Pa., Pittsburgh
Macbeth-Evans Glass Co.
Pa., Rochester
Fry Glass Co., H. C.

Tubes, Aluminum

Conn., New Haven
United Smelting & Aluminum Co., Inc.
Pa., Pittsburgh
Aluminum Co., of America, Oliver Bldg.

Tubes, Alundum

Mass., Worcester
Norton Co., New Bond St.

Tubes, Asbestos

N. Y., New York City
Johns-Manville Mfg. Co.

Tubes, Brass, Copper, Bronze

Conn., Waterbury
American Brass Co.
Md., Baltimore
Baltimore Tube Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.
N. Y., New York City
Hungerford & Co., U. T., 82 Lafayette St.

Tubes, Calcium Chloride

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
Pa., Carbondale
Griebel Instrument Co.

Tubes, Carbon

Ohio, Cleveland
National Carbon Co.
Pa., Carbondale
Griebel Instrument Co.

Tubes, Cast Iron

Ala., Birmingham
American Cast Iron Pipe Co.
Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Crane Co.
Link-Belt Co., W. 39th and Stewart Ave.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.

Tubes, Centrifuge

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Tubes, Collapsible

Conn., New London
New England Collapsible Tube Co.

Tubes, Combustion

Colo., Golden
Herold China & Pottery Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Rochester
Fry Glass Co., H. C.

Tubes, Condenser

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
N. Y., New York City
Duriron Castings Co., 90 West St.
Thermol Syndicate, Ltd., 50 E. 41st St.
Pa., Rochester
Fry Glass Co., H. C.

Tubes, Condensing (*see Tubes, Acid Condensing*)

Tubes, Condensite Celoron

Pa., Bridgeport
Diamond State Fibre Co.

Tubes, Connecting

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works

Tubes, Cooledge

N. Y., Schenectady
General Electric Co.

Tubes, Cooling

N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., New York City
Stevens Bros., Singer Bldg.
Thermal Syndicate, Ltd., 50 E. 41st St.
United Lined Tube & Valve Co., 111 Broadway

Tubes, Crystolon

Mass., Worcester
Norton Co., New Bond St.

Tubes, Culture

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works

Tubes, Distilling

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works

Tubes, Drawn

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Tubes, Filter

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Rochester
Fry Glass Co., H. C.

Tubes, Funnel

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works

Tubes, Glass (*see Glassware, Chemical*)

Tubes, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Tubes, Outer Protection

Mass., Worcester
Norton Co., New Bond St.
Mich., Detroit
Hoskins Mfg. Co., 453-71 Lawton Ave.

Tubes, Phosphorus

N. Y., Rochester
Will Corporation

Tubes, Pneumatic

Mass., Boston
Lamson & Co., 100 Boylston St.

Tubes, Pyrometer

Colo., Golden
Herold China & Pottery Co.
Mich., Detroit
Hoskins Mfg. Co.
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Carborundum Co.

Tubes, Pyrometer Alundum

Mass., Worcester
Norton Co., New Bond St.

Tubes, Seamless, Brass

Md., Baltimore
Baltimore Tube Co.

Tubes, Tapered, Zirconia Combustion

Pa., Pittsburgh
Crucible Steel Co. of America

Tubes, Test

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., New York City
Berge, J. & H., 95 John St.
*Eimer & Amend, 205-211 3d Ave.
Maris & Co., J. M., 40 Barclay St.
Scientific Utilities Co., Inc., 84 E. 10th St.
*Thermal Syndicate, Ltd., The, 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Fairmount Glass Works, 828 N. 23d St.
Steele Glass Co., 622 Locust St.
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
Scientific Materials Co.

Tubes, Thistle

N. Y., Rochester
Will Corporation

Tubes, Vulcanized Fibre

Pa., Bridgeport
Diamond State Fibre Co.

Tubes, X-Ray

N. Y., Schenectady
General Electric Co.

Tubing, Acid

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
Goodrich Rubber Co., B. F., S. Main St.

Tubing, Alkali

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Tubing, Alloy

Ohio, Shelby
Ohio Seamless Tube Co.

Tubing, Aluminum

Pa., Philadelphia
Ivins Tube Works, Ellwood, Oak Lane Station
Pa., Pittsburgh
Aluminum Co. of America

Tubing, Barometer

N. Y., Corning
Corning Glass Works

Tubing, Brass

Conn., Bridgeport
Bridgeport Glass Co.
Conn., Waterbury
American Brass Co.
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills

Tubing, Brass and Copper (Seamless)

Conn., Waterbury
American Brass Co.
Chase Rolling Mill Co.
Randolph-Clowes Co., The
Conn., Bridgeport
Bridgeport Brass Co.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Md., Baltimore
Baltimore Tube Co.
N. Y., New York City
Hungerford Brass & Copper Co., V. T., Lafayette, White and Franklin Sts.
Rutter, Arthur T., 256-257 Broadway
Pa., Erie
Erie-Buffalo Tube Co., 1227 W. 18th St.

Tubing, Canvas

Mo., St. Louis
Bemis Bros. Bag Co.

Tubing, Condenser

Conn., Waterbury
American Brass Co., The
Md., Baltimore
Baltimore Tube Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hungerford Brass & Copper Co., U. T., 80 Lafayette Ave.
N. Y., Rome
Rome Brass & Copper Co.

Tubing, Copper

Conn., Bridgeport
Bridgeport Brass Co.

Tubing, Fibre

Conn., Bridgeport
Diamond State Fibre Co.
Del., Wilmington
American Vulcanized Fibre Co.

Tubing, Flexible Metal

Conn., Waterbury
American Metal Hose Co.
Pa., Philadelphia
Pennsylvania Flexible Metallic Tubing Co.

Tubing, Glass

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
N. Y., Corning
Corning Glass Works
Pa., Pittsburgh
Macbeth-Evans Co.
Pa., Rochester
Fry Glass Co., H. C.

Tubing, Lead

N. Y., Brooklyn
Standard Rolling Mill, 363 Hudson Ave.
N. Y., New York City
National Lead Co., 111 Broadway
United Lined Tube & Lead Co., 111 Broadway
Pa., Bridgeport
Summerill Tubing Co.
Pa., Philadelphia
Ivins Tube Works, Ellwood, Oak Lane Station

Tubing, Platinum (Seamless)

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Tubing, Rubber

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
*Knott Apparatus Co., L. E., Cambridge "A" Station
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.
*Eimer & Amend, 205-211 3d Ave.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
*Thomas Co., Arthur H., W. Washington Sq.
*Whitall-Tatum Co., 410 Race St.
R. I., Bristol
National India Rubber Co.

Tubing, Steel

Pa., Pittsburgh
National Tube Co.

Tubing, Steel (Seamless)

Pa., Philadelphia
Ivins' Tube Works, Ellwood, Oak Lane Station
Pa., Pittsburgh
National Tube Co., 1902 Frick Bldg.
Pittsburgh Steel Products Co.

Tubing, Thermometer

N. Y., Corning
Corning Glass Works

Tubing, Syringe

Mass., Andover
Tyer Rubber Co.

Tubs, Acid

Mass., Boston
Badger & Sons Co., E. B.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Hauser-Standard Tank Co.
Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Tubs, Dye

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tubs, Etching

Ohio, East Akron
Knight, Maurice A.

Tubs, Wood

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Turbines

Conn., Hartford
Terry Steam Turbine Co.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Turntables

Colo., Denver
Colorado Iron Works Co.
Ill., Harvey
Whiting Foundry Equipment Co.
N. Y., New York City
Easton Car & Construction Co., 30 Church St.
Pa., Philadelphia
Brill Co., J. G.

Turpentine Apparatus

Mass., Boston
Lummus Co., The Walter E.

Tuyeres, Blast Furnace

Colo., Denver
Colorado Iron Works Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Tweezers, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Ultra-Violet Ray Apparatus

Ill., Chicago
Victor Electric Corporation, W. Jackson Blvd.
N. Y., Schenectady
General Electric Co.

Unions (*see Couplings, Fittings*)

Unloaders

Ill., Aurora
Barber-Greene Co.
Ill., Chicago
Brown Portable Conveying Machinery Co., 12 S. La Salle St.
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Fairbanks Morse & Co., 902 S. Wabash Ave.
Link-Belt Co.. W., 39th and Stewart Ave.
Weller Mfg. Co., 1820 N. Koestner Ave.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mo., St. Louis
Fulton Iron Works
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Chain Belt Co.

Urea Apparatus

N. Y., New York City
Squibb & Sons., E. R., 80 Beekman St.

Vacuum Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hospital Supply Co., 53 5th Ave.
United Lined Tube & Valve Co., 111 Broadway
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Vacuum Dryers (*see Dryers, Vacuum*)

Vacuum Filters (*see Filters, Vacuum*)

Vacuum Kneaders and Mixers (*see Kneaders, Vacuum*)

Vacuum Pans (*see Pans, Vacuum*)

Vacuum Pumps (*see Pumps, Vacuum*)

Valves, Acetylene

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.

Valves, Acid

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Crane Co., 839 S. Michigan Ave.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.
Walworth Mfg. Co., 142 High St.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., Brooklyn
Johnson Co., John
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Everlasting Valve Co., 2 Rector St.
General Ceramics Co., 50 Church St.
Sarco Co., Inc., Woolworth Bldg.
Simmons Co., John, 110 Center St.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Center, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Akron
Goodrich Co., B. F.
U. S. Stoneware Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Philadelphia
Ott Co., George F., 213 Buttonwood St.
Schutte & Koerting Co., 12th & Thompson Sts.
Pa., Pittsburgh
National Tube Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., York
York Mfg. Co.

Valves, Air

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Dunham Co., C. A.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Crosby Steam Gauge & Valve Mfg. Co.
Walworth Mfg. Co., 142 High St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Sarco Co., Inc., Woolworth Bldg.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Valves, Air Relief

Ill., Chicago
Crane Co., 826 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Alkali

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.
Neb., Omaha
Baker Ice Machine Co.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co.
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.
Ohio, Cincinnati
Triumph Ice Machine Co.
Wis., Milwaukee
Vilter Mfg. Co.

Valves, Ammonia (*see Valves, Alkali*)

Valves, Angle

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Walworth Mfg. Co., 142 High St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
Wis., Milwaukee
Allis Chalmers Mfg. Co.

Valves, Angle Check, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Angle, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Back Pressure

Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
Walworth Mfg. Co., 142 High St.
N.Y., New York City
Everlasting Valve Co., 2 Rector St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Balance (*see Valves, Float*)

Valves, Balanced Float

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
N. Y., Troy
Ludlow Valve Mfg. Co.
Pa., Pittsburgh
Homestead Valve Mfg. Co., 406 Sixth Ave.
Pittsburgh Valve, Foundry & Construction Co.

Valves, Blast Furnace

Ind., Connersville
Connersville Blower Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Blow-Off

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754
Pittsburgh Valve Foundry & Construction Co.

Valves, Blow-Off, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Boiler

Ill., Chicago
Crane Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Brass

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.
Jenkins Brothers, 80 White St.
N. Y., Troy
Ludlow Valve Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co.

Valves, Brass Regrinding

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Bronze (*see Valves, Brass*)

Valves, Butterfly

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, By Pass

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Ohio, Cincinnati
Lunkenheimer Co.

Valves, Check

Conn., Hartford
Pratt & Cady Co., Inc.
Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge Valve & Mfg. Co., 208 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Sarco Co., Inc., Woolworth Bldg.
United Lined Tube & Valve Co., 111 Broadway
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
N. Y., Seneca Falls
Gould Mfg. Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Chlorine

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.

Valves, Coke Ovens

Iowa, Marshalltown
Dunham Co., C. A.
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Valves, Cross

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.

Valves, Cylinder

Iowa, Marshalltown
Fisher Governor Co.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Diaphragm, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Disc

Ill., Chicago
Crane Co., 826 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Duplex Oil Tank

Ia., Dubuque
McDonald Mfg. Co., A. Y.

Valves, Electric, Steam, H.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Electric, Steam, L.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Exhaust

Ill., Chicago
Crane Co., 826 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Float

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co., 416 Broome St.
Simmons Co., John
Wilfert Co., John, 259 Broadway
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Philadelphia
Schutte & Koerting Co., 12th & Thompson Sts.

Valves, Furnace *(see Valves, Blast Furnace)*

Valves, Gas

Ind., Connersville
Connersville Blower Co.
Ind., Fort Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett Hayward Co.
Mich., Detroit
Steere Engineering Co., Woodward Ave.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.
Ohio, Cleveland
Gas Machinery Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co.
Pittsburgh Valve Foundry and Construction Co.

Valves, Gas and Air

N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.

Valves, Gate

Ill., Chicago
Crane Co.
Ind., Fort Wayne
Western Gas Construction Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co., 416 Broome St.
N. Y., Troy
Ludlow Valve Mfg. Co.
Ohio, Mansfield
Ohio Brass Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.
Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, Gate, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Generator

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Globe

Ill., Chicago
Crane Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Fairbanks Co.
United Lined Tube & Valve Co., 111 Broadway
Ohio, Mansfield
Ohio Brass Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
National Tube Co.
Pa., York
York Mfg. Co.

Valves, Globe, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, High Pressure

Ill., Chicago
Crane Co.
Mass., Boston
Crosby Steam Gauge & Valve Co.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.
N. Y., Troy
Ross Valve Mfg. Co.
Ohio, Cincinnati
Triumph Ice Machine Co.
Ohio, Cleveland
Lennox Chemical Co., The, 1201 E. 55th St.
Pa., Pittsburgh
National Tube Co.

Valves, High Pressure, Hydrogen

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Valves, High Pressure, Oxygen

N. Y., Buffalo
Sherwood Mfg. Co., 1710 Elmwood Ave.

Valves, High Pressure, Steam

N. Y., Albany
Consolidated Car Heating Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Pa., Homestead
Homestead Valve Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Valves, Horizontal Check, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co. Inc.

Valves, Hydraulic

Conn., Hartford
Pratt & Cady Co.
Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Boston Belting Co., 84 Linden Park St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Jenkins Bros., 80 White St.
Wilfert Co., John, 259 Broadway
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
National Tube Co.

Valves, Hydrogen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Indicator

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.

Valves, Iron

Ind., Fort Wayne
Western Gas Construction Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Jenkins Brothers, 80 White St.
Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, Iron Body

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Jenkins Brothers, 80 White St.

Valves, Iron, Lead Lined

N. Y., New York City
United Lined Tube & Lead Co., 111 Broadway

Valves, Iron, Regrinding

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Lead Check

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Valves, Lead Lined

N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
United Lined Tube & Lead Co., 111 Broadway
Worthington Pump & Machinery Corporation
Pa., Philadelphia
Monarch Mfg. Works, Inc., 3129 Emery St.

Valves, Lead Stop

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Valves, Lever (*see also Valves, Float*)

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Liquid Carbonic Acid Gas

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Low Pressure

Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
Walworth Mfg. Co., 142 High St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.

Valves, Mixing, Gas (*see Valves, Gas*)

Valves, Natural Gas (*see Valves, Gas*)

Valves, Non-Return

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Mass., Boston
Walworth Mfg. Co., 142 High St.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Oil

Mass., Boston
American Steam Gauge & Valve Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.

Valves, Oil and Air

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.

Valves, Oil and Steam

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.

Valves, Oil Burner

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Oil Resisting

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.

Valves, Operating

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Oxygen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Phosgen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Pressure

Ill., Chicago
Crane Co., 816 S. Michigan Ave.
Iowa, Marshalltown
Dunham Co.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.

Valves, Pump

Conn., Bridgeport
Canfield Rubber Co.
Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. J., Passaic
Dick, Ltd., R. & J.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 128 Duane St.
Johns-Manville Co., H. W., 41st St. and Madison Ave.
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.

Valves, Pump, Acid Proof

N. Y., New York City
Rebele, L. J., 50 Church St.

Valves, Quarter-Turn, Acid Resisting Bronze

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Brass

N. Y., York City
Everlasting Valve Co., 2 Rector St.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Semi-Steel

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Reducing

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Ia., Marshalltown
Dunham Co., C. A.
Fisher Governor Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
d'Este Co., Julian, 26 Canal St.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York City
Sarco Co., Inc., 237 Broadway
N. Y., Troy
Ross Valve Mfg. Co.
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Regulating *(see Valves, Reducing)*

Valves, Relief *(see Valves, Air Relief)*

Valves, Standpipe

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Steam Jacketed

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.

Valves, Steam Reducing

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Valves, Steel, Cast

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Jenkins Brothers, 80 White St.

Valves, Stoneware

N. Y., New York City.,
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Valves, Stop

Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
Crane Co., 836 S. Michigan Ave.
Ind., Connersville
Connersville Blower Co.
Iowa, Marshalltown
Dunham Co., C. A.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Crosby Steam Gauge & Valve Mfg. Co.
Walworth Mfg. Co., 142 High St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Sarco Co., Inc., Woolworth Bldg.
N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.
Ohio, Cincinnati
Lunkenheimer Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Valves, Sulphur Dioxide

N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Welding Supply Co., Inc., 132 Nassau St.

Valves, Tank (*see also Valves, Float*)

Iowa, Marshalltown
Fisher Governor Co.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Pa., Homestead
Homestead Valve Mfg. Co.

Valves, Throttle

Ill., Chicago
Crane Co., 826 S. Michigan Ave.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
Walworth Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Pa., Pittsburgh
Pittsburgh Valve Foundry & Construction Co.

Valves, Time

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.

Valves, Vacuum

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
N. Y., New York City
Everlasting Valve Co., 2 Rector St.
Fairbanks Co.
Sarco Co., Inc., 237 Broadway
Ohio, Cincinnati
Triumph Ice Machine Co.
Pa., Philadelphia
Ott Co., George F.

Valves, Vertical Check, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Valves, Water

N. Y., New York City
Equitherm Control Corp., 30 Church St.
Everlasting Valve Co., 2 Rector St.

Valves, Y, Chemetal

N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.

Vanners, Frue

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Chalmers & Williams, Inc.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Vapor Proof Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Varnish and Oil Boiling Plants

N. Y., New York City
Kalbperry Corporation, 31 Union Square, W.

Vats *(see Tubs, Acid)*

Vats, Acid Proof Stone

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Vats, Dye *(see also Tanks)*

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
New England Tank & Tower Co.
N. J., Jersey City
Corcoran Co., Inc., A. J.
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.

Vats, Lead Lined

N. Y., Brooklyn
Abernethy, John F., 703 Myrtle Ave.

Vats, Rectangular

N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.

Vats, Wood

Ill., Batavia
Challenge Co.
U. S. Wind Engine & Pump Co., 30 Water St.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
N. J., Hoboken
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Ohio, Cincinnati
Hauser-Stouder Co.
Pa., Philadelphia
Woolford Wood Tank Mfg. Co., G., 1429 Chestnut St.

Vegetable Extract Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Ventilating Systems

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corporation, 39 Cortlandt St.
Gerdes & Co., Inc., 30 Church St.
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Braemer Air Conditioning Corporation, La Fayette Bldg.
R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.

Ventilators *(see Ventilating Systems)*

Ventilators, Glass Window

R. I., Providence
Ideal Ventilator Co., 99 Stewart St.

Vials

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard

Vibrators, Pneumatic

Conn., Branford
Malleable Iron Fittings Co.
Ill., Chicago
Victor Electric Corporation, W. Jackson Blvd.
Ohio, Cleveland
Osborn Mfg. Co.

Viscose Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Viscosimeters

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co.

Voltmeters

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. J. Newark
Weston Electrical Instrument Co., Waverly Park
N. J., Trenton
Pyrolectric Instrument Co., 636-640 E. State St.
N. Y., New York City
Pignolet, Louis M., 78 Cortlandt St.
Roller-Smith Co., 233 Bryadway
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.
Queen-Gray Co., 616-20 Chestnut St.

Vulcanizers

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co.
Goodrich Co., B. F.
Pa., Coatesville
Coatesville Boiler Works

Wall Coping

Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Walls, Laboratory

Ill., Chicago
Vitrolite Co., 133 W. Washington St.

Ware, Acid

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Robinson Clay Products Co. of New York, Fuller Bldg.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Warmers, Slide

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Washers, Acid

Md., Baltimore
Bartlett Hayward Co.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.

Washers, Air

Ill., Chicago
Drying Systems, Inc., 320 Michigan Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Spray Engineering Co., 93 Federal St.
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Camden
Webster & Co., Warren

Washers, Air—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
American Spray Co., 26 Cortlandt St.
Carrier Air Conditioning Co., 39 Cortlandt St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Washers, Alloy

N. Y., New York City
U. S. Indestructible Gasket Co., 50 Church St.

Washers, Gum

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Washers, Lead

N. Y., New York City
Rebele, L. J., 50 Church St.

Washers, Lead Alloys

N. Y., New York City
Rebele, L. J., 50 Church St.

Washers, Leather

Mich., Detroit
Detroit Leather Specialty Co., Inc., 15 Beecher St.
N. Y., New York City
Schieren Co., Chas. A., 30-38 Ferry St.

Washers, Metals

N. Y., New York City
*Rebele, L. J., 50 Church St.

Washers, Oil

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Washers, Rubber

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
U. S. Rubber Co., 1790 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cleveland
Mechanical Rubber Co.

Washers, Vulcanized Fibre

Del., Wilmington
American Vulcanized Fibre Co.

Washing Equipment, Lithopone

N. Y., New York City
Dorr Co., 101 Park Ave.

Washing Machines, Blue Prints

Ill., Chicago
Pease Co., C. F., 219 W. Institute Pl.

Washing Processes

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Washing Processes, Gas

Md., Baltimore
Bartlett Hayward Co.

Waste Product Recovery Machinery

Ind., Fort Wayne
Western Gas Construction Co.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. C., Charlotte
Chemical Construction Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Provost Engineering Corp., 220 Broadway

Water Analysis Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711 Forbes St.

Water Baths

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Thomas Co., Arthur H., W. Washington Sq.

Water Baths, Laboratory, Enamel Lined

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Water Cooling Appliances (*see Air Conditioning and Air Purifying Apparatus*)

Water Distilling Apparatus

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Hampton
Standard Water Systems Co.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. J., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
N. Y., Brooklyn
Improved Appliance Co., 413-415 Kent Ave.
N. Y., New York City
Alberger Pump & Condenser Co., 140 Cedar St.
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square
Pa., Waynesboro
Frick Co., Inc.

Water Gas Plants, Blue

Ind., Fort Wayne
Western Gas Construction Co.

Water Purifying Apparatus (*see Filters*)

Water Softening Systems

Ill., Chicago
International Filter Co.
Power Plant Specialty Co., 1306 Monadnock Bldg.
Ind., Mishawaka
Dodge Sales & Engineering Co.
Mass., Florence
Norwood Engineering Co.
N. J., Jersey City
Booth Co., L. M., 62 Hudson St.
N. Y., New York City
Industrial Filter Corporation, 115 Broadway
Pa., Philadelphia
American Water Softener Co., 1011 Chestnut St.
Harrison Safety Boiler Works, 3130 N. 17th St.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Water Sterilizing Plants

Pa., Philadelphia
American Water Softener Co., 10th and Chestnut Sts.

Water Supply Systems

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Water Work Plants

Md., Baltimore
Baltimore Cooperage Co., The

Waterproof Paper

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Wattmeters

Conn., Waterbury
Bristol Co.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Roller-Smith Co., 233 Broadway
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.

Weighing Machinery (Automatic)

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenwood Ave.
Mass., Boston
Sturtevant Mill Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1200 N. Niagara St.
Willcox Engineering Co.
N. J., Newark
Automatic Weighing Machine Co., 134-140 Commerce St.
N. J., Passaic
Richardson Scale Co.
N. Y., New York City
American Kron Scale Co., 430 E. 53d St.
Conveying Weigher Co., 90 West St.
Electric Weighing Co., 180 13th Ave.
Fairbanks Co., 416 Broome St.

Weights (*see Balances*)

Weights, Laboratory (*see Balances*)

Weights, Metric, Precision

Colo., Denver
Ainsworth & Sons, William, 2151 Lawrence St.
N. Y., New York City
Becker, Inc., Christian, 92 Reade St.
N. Y., Troy
Gurley, W. & L. E.
Utah, Salt Lake City
Keller Mfg. Co., G. P., 1388 S. State St.

Welding All Metals

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Welding Apparatus

Ill., Chicago
Bordette Mfg. Co.
Mass., Boston
Waterhouse Welding Co.
Md., Baltimore
Milburn Co., Alexander, 1420–1428 W. Baltimore St.
N. J., Newark
International Oxygen Co., 796 Frelinghuysen Ave.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Linde Air Products Co., 42d St. Bldg.
Welding Supply Co., Inc., 132 Nassau St.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Welding Fluxes

Mass., Boston
Waterhouse Welding Co.
Mo., St. Louis
Modern Engineering Co., 23d and Walnut Sts.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Welding Rods

Mass., Boston
Waterhouse Welding Co.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway

Wheels, Felt

Ill., Chicago
Rhodes & Co., James H., 153–159 W. Austin Ave.

Wheels, Filtros

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Wheels, Grinding

Conn., Bridgeport
Bridgeport Safety Emery Wheel Co., Inc.
Ill., Chicago
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Mass., Waltham
Superior Corundum Wheel Co.
Waltham Grinding Wheel Co.
Mass., Worcester
Bay State Emery Wheel Co.
Norton Co.
Mich., Detroit
Detroit Grinding Wheel Co.
Star Corundum Wheel Co.
N. Y., Buffalo
National Grinding Wheel Co., Inc., 2984 Main St.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Springfield
Safety Emery Wheel Co.
Pa., Philadelphia
Abrasive Material Co.
Pa., Rochester
Pittsburgh Grinding Wheel Co.
R. I., Providence
American Emery Wheel Works

Wheels, Sprocket

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Wheels, Traction

Del., Wilmington
Walker & Elliott, Inc.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Windmills

Md., Baltimore
Baltimore Cooperage Co.

Windmills, Steel

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.

Windmills, Wood

Ill., Batavia
U. S. Wind Engine & Pump Co., 30 Water St.

Wire, Brass and Copper

Conn., Southport
O'Neill Wire Works, Joseph
Conn., Waterbury
American Brass Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.
N. J., Trenton
Roebling's Sons Co., John A.
N. Y., New York City
Hungerford Brass & Copper Co., V. T., Lafayette, White and Franklin Sts.
Pa., Wilkes-Barre
Hazard Mfg. Co.

Wire Cloth

Conn., Southport
O'Neill Wire Works, Joseph
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass , Cambridge
Morss & Whyte Co., Sidney and Pilgrim St.
Mass., Worcester
Weight Wire Co., 69 Hammond St.
Mich., Detroit
Michigan Wire Cloth Co., 536 Howard St.
N. J., Newark
Newark Wire Cloth Co., 222-28 Verona Ave.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., Buffalo
Buffalo Wire Works Co., 480 Terrace St.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Multi-Metal Co., 251 W. 19th St.
Rogers Wire Works, Inc., 291 Broadway
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Pa., Philadelphia
Darby & Sons Co., Inc., Edward, 233-235 Arch St.

Wire Cloth, Brass

Ohio, Cleveland
Lindsay Wire Weaving Co., 14025 Aspinwall Ave.

Wire Cloth, Brass and Copper

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.

Wire Cloth, Galvanized

Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Mining

N. J., Newark
Newark Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Monel Metal

N. J., Newark
Newark Wire Cloth Co.
N. Y., New York City
Multi-Metal Co., Inc., 251 W. 19th St.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Nickel, Bronze, and Steel

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.

Wire Cloth, Phosphor Bronze

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.
Ohio, Cleveland
Lindsay Wire Weaving Co., 14025 Aspinwall Ave.

Wire Cloth, Tinned

Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Twilled

N. J., Newark
Newark Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire, Cylinder

Conn., Southport
O'Neill Wire Works, Joseph

Wire, Flat

Mass., Worcester
Spencer Wire Co.
N. J., Trenton
Roebling's Son Co., John A.

Wire Glass Products

Pa., Philadelphia
Pennsylvania Wire Glass Co., 914 Pennsylvania Bldg.

Wire, Iron and Steel

Mass., Boston
Ward's Son, Edgar T., 50 Farnsworth St.
Mass., Worcester
Spencer Wire Co.
N. J., Trenton
Roebling's Sons Co., John A.
Ohio, Youngstown
Youngstown Sheet & Tube Co.

Wire Machinery, Screw

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Wire Machines, Straightening and Cutting

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Wire, Magnet

Conn., New Haven
Acme Wire Co.

Wire Netting

N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Wire, Phos Bronze

Conn., Southport
O'Neill Wire Works, Joseph

Wire, Piano

N. Y., New York City
Montgomery & Co., Inc., 105-107 Fulton St.

Wire, Platinum

N. J., Newark
American Platinum Works
Baker & Co., Inc., 54 Austin St.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Wire, Resistance

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.

Wire Screen

N. Y., New York City
Multi Metal Co., Inc., 251 W. 19th St.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Tool Steel

Pa., Monaca
Pittsburgh Tool Steel Wire Co.

Wire, Weaving

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Welding

Ill., Chicago
Central Steel & Wire Co., 1119 N. Peoria St.
N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt St.

Wood Distillation Evaporators

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Lummus Co., The Walter E., 173 Milk St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Zaremba Co., Morgan Bldg.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Wood Preserving Machinery

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Wooden Ware

N. Y., New York City
Scientific Utilities Co., Inc., 84 E. 10th St.

Wool Fat Plants

Pa., West Chester
Sharples Specialty Co., The

Worms, Acid Proof, Stoneware

Ohio, East Akron
Knight, Maurice A.

Worms, Cooling

Ohio, Akron
Weeks, A. J.

X-Ray Apparatus

Ill., Chicago
Thordarson Electric Mfg. Co., 501 S. Jefferson St.
Victor Electric Corporation, 236 S. Robey St.
Ind., Hammond
Betz & Co., Frank S.
Mass., Lynn
Campbell Electric Co.
N. Y., New York City
Kny-Scheerer Co., 404 W. 27th St.
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Wocher & Son Co., Max, 19 W. 6th Ave. W.
Pa., Philadelphia
Queen-Gray Co., 618 Chestnut St.

X-Ray Bulbs

N. Y., Corning
Corning Glass Works

X-Ray Developing Tanks

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.

X-Ray Shields

N. Y., Corning
Corning Glass Works

X-Ray Tubes

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works

Xylidene Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Yokes, Agitator Driving

Mich., Saginaw, W. S.
Nickle, Frank H., 1321 N. Bond St.

Zeiss Ware

N. Y., New York City
*Eimer & Amend, 3rd Ave., 18th to 19th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

IV. MANUFACTURERS AND DEALERS OF EQUIPMENT

Ala., Anniston
Kilby Car & Foundry Co.
Ala., Birmingham
Ajax Metal Co.
American Cast Iron Pipe Co.
Birmingham Boiler Works
Continental Gin Co.
Graves Shale Paving Brick Co.
Jefferson Powder Co.
Ark., Eldorado
Eldorado Blow Pipe Co.
Cal., Berkeley
*University Apparatus Co., 2229 McGee Ave.
Cal., Fresno
Gearhart Oil Burner Co , 1314 Eye St.
Cal., Los Angeles
Acme Brass Foundry Co., 860 N. Main St.
Baker Iron Works, 950 N. Broadway
Bishop & Co.
Braun Corporation, The, 363 New High St.
Calkins Co., 348 N. Main St.
Densmore-Stabler Refining Co., 2474 E. 9th St.
Hoegee Co., Inc., W. H., 138 S. Main St.
Lane Mill & Machinery Co., 106 W. 3d St.
Llewellyn Iron Works, N. Main and Redondo
National Percolators Co., 124 W. 9th St.
Pacific Tank & Pipe Co., 318 Market St.
Sirch, C. W., 126 W. 3d St.
Southern Refining Co., 129 W. 2d St.
Sunset Oil Refining Co., 307 W. 1st St.
Union Oil Co. of Cal., 215 W. 7th St
U. S. Flexible Metallic Tubing Co., 430 Boyd St.
Wood Mfg. Co., 1832 E. 16th St.
Cal., Emeryville, Oakland
Marchant Calculating Machine Co.
Cal., Oakland
Oakland Blue Print Co.
Commercial Building
Senn Concentrator Co.
Union Iron Works
United Iron Works
Cal., San Francisco
Associate Oil Co., Sharon Bldg.
Bethlehem Shipbuilding Corporation
*Braun-Knecht-Heimann Co., 584 Mission St.
Claire, Justenian Co., 575 Market St.
Cook Belting Co., H. N., 401 Howard St.
Dill-Crossett, Inc., 235 Pine St.
Gladding, McBean & Co., 148 Natoma St.
Hendy Iron Works, Joshua, 75 Fremont St.
Illinois-Pacific Glass Co., 15th and Folson Ave.
Johnson Co., S. T., 1337 Mission St.
Lietz Co., A., 632 Commercial St.
Merrill Metallurgical Co., 121 2d St.
Oliver Continuous Filter Co., 505 Market St.
Pacific Tank & Pipe Co., 318 Market St.
Price Pump & Engine Co., G. W., 33 Stevenson St.
Redwood Mfgs. Co., Hobart Bldg.
Rees Blow Pipe Co., 340 7th St.
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Senn Concentrator Co., 607 First National Bank Bldg.
Smith, C. W., 16 Washington St.
Union Iron Works Co., 214 Spear St.
Western Pipe & Steel Co. of Cal., 444 Market St.
Cal., Sacramento
Sacramento Burner & Oil Co.
Cal., Torrance
Pacific Metal Products Co.
Canada, Coblat, Ontario
Groch Centrifugal Flotation, Ltd.
Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
American Coal Reduction & By-Products Co.
Colorado Iron Works Co., 33d and Wynkoop Sts.
Denver Fire Clay Co., 1742 Champa St.
Denver Iron Works Co., 30th and Blake Sts.
Dorr Co., Cooper Bldg.
Hendrie & Bolthoff Mfg. & Supply Co.
Mine & Smelter Supply Co.

Morse Bros. Machinery & Supply Co., 1732 Wazee St.
Pierce, Lucius S., 1738 Broadway
Shaw Pneumatic Tool Co., C. H., 35th and Wazee Sts.
Stearns-Roger Mfg. Co., 1718-20 California St.
Thompson Balance Co., 808 20th St.

Colo., Golden
Herold China & Pottery Co.

Conn., Ansonia
Ansonia Mfg. Co., River Road
Farrell Foundry & Machine Co.

Conn., Branford
Branford Iron Fittings Co.
Malleable Iron Fittings Co.

Conn., Bridgeport
American Tube & Stamping Co.
Ames Machine Co., Max.
Bridgeport Brass Co.
Bridgeport Crucible Co.
Bridgeport Malleable Iron Works
Bridgeport Safety Emery Wheel Co., Inc.
Bridgeport Steel Treating Co.
Bullard Machine Tool Co.
Canfield Rubber Co.
Connecticut Metal Treatin , 07 Knowlton Ave.
Delcampe Welding Co.
Diamond State Fibre Co.
McNab Company
Palmer & Co., N.
Rust Resisting Black Finish Co.
Springfield Mfg. Co.
Standard Mfg. Co.

Conn., Bristol
Barnes, Wallace Co., 118 Wallace Ave
Dunbar Bros. Co., 76 South St.
New Departure Mfg. Co.
Root Co., C. J., 150 Bridge St.

Conn., Chester
Bates & Sons Co., C. J.

Conn., Collinsville
Collins Company

Conn., Danbury
Ball & Roller Bearing Co., Maple Ave.

Conn., Deep River
Rogers Brush Works

Conn., Derby
Birmingham Iron Foundry
Dairy Machinery & Construction Co.

Conn., East Hampton
Hill Brass Co., N. N.

Conn., East River
Weld, Geo. M.

Conn., Georgetown
Gilbert & Bennett

Conn., Groton
New London Ship & Engine Co.
Hartford Covering Co., 1234 Main St.
Jewell Belting Co.
Johns-Pratt Co., 555 Capitol St.
Ney & Co., J. M.
Organ Power Co.
Pratt & Cady Co., Inc.
Roto Company
Sterling Blower Co.
Terry Steam Turbine Company, The
Veeder Mfg. Co.

Conn., Hartford
Abbott Ball Co.
Automatic Refrigerating Co.
Baker Electric Co.
Connecticut Blower Co., Inc.
Ney Co., J. M.
Pratt & Cady Co.
Spencer Turbine Co.
Terry Steam Turbine Co.
Whitlock Coil Pipe Co.

Conn., Meriden
Bradley & Hubbard Mfg. Co
International Silver Co.
Miller & Co., Edward
Parker, Chas. C.

Conn., Middletown
New England Enameling Co.
Palmer Co., E. I.
Wilcox Crittenden Co., Inc.

Conn., Montville
Robertson Co., C. M.

Conn., New Britain
Hart & Cooley Co.
Landers, Frary & Clark
North & Judd Mfg. Co.
Stanley Rule & Level Co.
Vulcan Iron Works

Conn., New Haven
Acme Wire Co.
American Steel & Wire Co.
Bauman Rubber Co.
Best Mfg. Co.
Bigelow Co., 76 River St.
Coe & Brown
Eastern Machinery Co.
Marlin Arms Corp.
Griswold Machine Co., Geo. M.
National Pipe Bending Co., The, River and Lloyd Sts.
Oven Equipment & Mfg. Co.
Oxy-Carbi Co.
Peck Bros. & Co., The
United Smelting & Aluminum Co.

Conn., New London
New England Collapsible Tube Co.
Whiton Machine Co., D. E.

Conn., Norwich
Norwich Belt Mfg. Co.
Thames Cork Co.

Conn., Seymour
Seymour Mfg. Co.

Conn., Shelton
Clark Cast Steel Cement Co.

Conn., South Norwalk
Nash Engineering Co.

Conn., Southport
O'Neill Wire Works, Joseph
Conn., Stamford
Celluloid Zapon Co.
Stamford Gas Stove Co.
Conn., Tolland
Sumner Belting Co., William
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Unionville
House & Sons
Conn., Wallingford
Wallace & Sons Mfg. Co., R.
Conn., Waterbury
American Brass Co., The
American Metal Hose Co.
Apothecaries Hall Co.
Bristol Co.
Chase Rolling Mill Co.
Kenworthy, Chas. F.
Novelty Mfg. Co.
Randolph-Clowes Co., The
Scoville Mfg. Co.
Waterbury Brass Goods Corp.
Waterbury Clock Co.
Waterbury Mfg. Co.
Conn., Windsor Locks
Anchor Paper Co., Inc.
Conn., Westport
Dolge Co., C. B.
Del., Newark
Continental Fibre Co.
Del., South Wilmington
Hilles & Jones Co.
Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Atlas Powder Co.
Betts Machine Co.
Delaware Hard Fibre Co.
Du Pont De Nemours and Co., E. I.
Du Pont Fabrikoid Co.
Electric Hose & Rubber Co.
Harlan & Hollingsworth Corp.
Hercules Powder Co.
Jessup & Moore Paper Co.
Pusey & Jones Co.
Remington Machine Company
Slocomb & Co., Inc., F. F.
Walker & Elliott, Inc.
England Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
England, Deepfields, nr. Bilston Staffs
Cannon Iron Foundries, Ltd.
England, Stanningley, near Leeds
Leeds & Bradford Boiler Co., Ltd., The
England, Widnes
Widnes Foundry Co., Ltd., The
Ga., Atlanta
Atlanta Utility Works
Austin Co., W. E.
Hood Brick Co., B. Mifflin, Chandler Bldg.
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
Ga., Columbus
Columbus Iron Works Co.
Ga., La Grange
Unity Cotton Mills
Ga., Macon
Bibb Mfg. Co.
Ga., Newman
Cole Mfg. Co., R. D.
Ga., Rome
Davis Foundry & Machine Works
Rome Scale & Mfg. Co.
Ga., Savannah
Crescent City Blow Pipe Co.
Savannah Blow Pipe & Exhaust Co.
Ill., Alton
Illinois Bottle Company
Illinois Glass Co.
Illinois Stoker Co.
Ill., Aurora
American Well Works
Barber-Greene Co.
Lyon Metallic Mfg. Co.
Stephens-Adamson Mfg. Co.
Western Wheeler Scraper Co.
Ill., Batavia
Allbright-Nell Co., 5225 Southwestern Blvd.
Challenge Co.
Sperry & Co., D. R.
U. S. Wind Eng. & Pump Co., 30 Water St.
Ill., Bradley
Bradley Machine Works
Ill., Calumet
Calumet Steel Co.
Ill., Chicago
Accurate Engineering Co.
Acme Water Still Co., 180 N. Dearborn St.
Adams & Westlake Co., Ontario and Franklin Sts.
Aetna Powder Co., 7 S. Dearborn St.
Albaugh-Dover Co., 2100 Marshall Bldg.
Allbright-Nell Co., 4023 Westworth St.
American Arch Co., McCormick Bldg.
American Can Co., 104 S. Michigan Ave.
American Conveyor Co., 6611 Drexel Ave.
American Cutlery Co., 193 Mather St.
American Indicator Paper Co., 2547 Eastwood Ave.
American Magnesia Products Co., 600 W. Austin Ave.
American Manganese Steel Co., McCormick Bldg.
American Radiator Co.

American Seating Co., 14 E. Jackson St.
American Spiral Pipe Works, 14th St. and S. Cicero Ave.
American Steel & Wire Co.
American Steel Foundries, McCormick Bldg.
American Tag Co., State and 61st St.
American Wire Fabrics Co.
Andresen-Evans Co., 646 Railway Exchange Bldg.
Andrews Co., A. H., 117 S. Wabash Ave.
Austin Mfg. Co., 910 S. Michigan Ave.
Automatic File Co., 108 N. Dearborn St
Badt & Co., F. B., 6506 Lafayette Ave.
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
Bennett O'Connell Co., 3600 S. Morgan St.
Bieder Co., 334 S. Clinton St.
Bleadon Dunn Co., 208 N. 5th Ave.
Block Chemical Laboratories, 208 S. La Salle St.
Booth Felt Co., Inc., 116 S. 5th Ave.
Brown Portable Conveying Machinery Co., 10 S. LaSalle St.
Brown Portable Elevator Co.
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Burke & James, Inc., 240 E. Ontario St.
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Calumet Steel Co., 208 S. La Salle St.
Carpenter & Co., Geo. B., 436 Wells St.
Cassady-Fairbanks Mfg. Co., 6126 La Salle Ave.
Central Locomotive & Car Works, 345 S. Dearborn St.
*Central Scientific Co., 460 E. Ohio St.
Central Steel & Wire Co., 1119 N. Peoria St.
Chalmers & Williams, Inc.
Channon Co., H., Market and Randolph St.
Chicago Belting Co., 113-125 Green St.
Chicago Bridge & Iron Works, 105th and Throop Sts.
Chicago Eye Shield Co., 2300 Warren Ave.
Chicago Fire Brick Co., 133 W. Washington St.
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
Chicago Glass Products Co., 2300 Warren Ave.
Chicago Pneumatic Tool Co., Fisher Bldg.
Chicago Pump Co., 904-10 W. Lake St.
Chicago Retort & Fire Brick Co., 204 S. La Salle St.
Chicago Steel Car Co., 156th and Halstead Aves.
Chicago Steel Foundry Co.
Chicago Surgical & Electrical Co., 314 W. Superior St.
Chicago Tubing & Braiding Co., 216 N. Clinton St.
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Chicago Wire Chair Co., 618 N. La Salle St.
Clark Dust Collecting Co., 1116 Fisher Bldg.
Combustion Appliance Co., 1778 Estes Ave.
Commercial Corundum & Emery Wheel Co., 920-22 W. Ohio St.
Crane Company, 836 S. Michigan Ave.
Creamery Package Mfg. Co., 61 W. Kinzie St.
Cyclone Blow Pipe Co., 2552 W. 31st St.
Cyclone Blow Pipe Co., 1001 W. 21st St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Deegan Supply Co., 116-122 W. Illinois St.
Dietzgen Co., Eugene, 166 W. Monroe St.
Drying Systems, Inc., 320 N. Michigan Ave.
Dull Co., Raymond W., 111 W. Washington St.
Durand Steel Locker Co., 76 W. Monroe St.
Dwight Mfg. Co., 12-14 Jefferson St.
Eagle-Picher Lead Co., 208 S. La Salle St.
Eagle Tank Co., 2426 N. Crawford Co.
Economy Engineering Co., 415 S. Wasthenaw Ave
Economy Pumping Machinery Co., 120-126 N. Curtis St.
Electric Magneto Tool Co., 2902 Canoll Ave.
Ellison, Lewis M., 214 W. Kinzie St.
*Elmer, H. N., 53 W. Jackson Blvd.
Elmes Engineering Works, Chas. F., 215 N. Morgan St.
Fairbanks, Morse & Co., 902 S. Wabash Ave.
Federal Brass Works, 3100 S. Kinzie St.
Federal Sign System, Lake and Desplaines Ave.
Flexible Steel Lacing Co., 522 S. Clinton St.
Foundation Co., Rookery Bldg.
Gaertner & Co., Wm., 5345 Lake Park Ave.

Garden City Fan Co., McCormick Bldg.
Gerts, Lombard & Co., 221 W. Randolph St.
Goodman Mfg. Co., Halstead St. and 48th Pl.
Great Western Smelting & Refining Co.
Griffin Wheel Co., 332 S. Michigan Ave.
Guillot Metal Gasket & Supply Co., 24 S. Clinton St.
Guertnor Co., Wm.
Halsted Co., Jos., 1233 W. Randolph St.
Harrington & King Perforating Co., 640 N. Union Ave.
Harvard Electric Co., 525 W. Van Buren St.
Hooker Co., H. M., 651 Washington Place
Humboldt Mfg. Co., 2014 Nebraska Ave.
Ilg Electric Ventilating Co., 131 Whiting St.
Illinois Engineering Co., Racine Ave. and 21st St.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Illinois Steel Co., 208 S. La Salle St.
Imperial Brass Mfg. Co., 524 S. Racine Ave.
Independent Pneumatic Tool Co., 1307 Michigan Ave.
Inland Steel Co., 1st Nat'l. Bank Bldg.
International Filter Co., 1702 S. Wabash Ave.
International Harvester Co., 608 S. Michigan Ave.
Invincible Blow Pipe Co., 2527 Homer St.
Johnson Engineering Works, 1734 First Nat'l. Bank Bldg.
Jones Foundry & Machine Co., W. A., 4404 W. 12th St.
Justrite Mfg. Co., 2061 Southport Ave.
Kaestner & Hecht Co., Inc., Harrison and Throop St.
Kelso & Co., 557 W. Quincy St.
Kimble-Durand Glass Co., 402 W. Randolph St.
*Laboratory Materials Co., 640 E. 71st St.
Lammert & Mann Company, Wood and Walnut Sts.
Lehon Co., W., 45th & Oakley Ave.
Leonard Peterson & Co., 1234-1248 Fullerton Ave.
Life Savings Devices Co., 564 W. Monroe St.
Link-Belt Co., W., W. 39th St. and Stewart Ave.
Liquid Carbonic Co., 31st St. & Kenzie Ave.
Magnus Sons Co., A., 327 W. Randolph St.
Maloney Belting Co., 130 N. Franklin St.
McCauley Belting Co., 212-220 Orleans St.
McDonnell Odometer Co., 35th St. and Kenzie Ave.
McGuire-Cummings Mfg. Co., 111 W. Monroe St.
Mechanical Rubber Co., 307 W. Randolph St.
Metal Specialties Mfg. Co., 736 W. Monroe St.
Meyer Co., Wm., 825 W. Washington St.
Mohr & Son, John, 349-359 W. Illinois St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Moore & Lorenz Co., 2144-52 Fulton St.
Morgan-Gardner Electric Co., 2622 S. Nields Ave.
Mott Sand Blast Co., 26 S. Clinton St.
Murphy Metals Co., 1248 Webster Bldg.
National Boiler Washing Co., 531 Railway Exchange Bldg.
National Dump Cart Co., 80 E. Jackson Blvd.
National Electric Controller Co., 154 Whiting St.
National Enameling & Stamping Co.
National Hose Coupling Co., People's Gas Bldg.
National Regulator Co., 208 S. Jefferson St.
National Rheostat, The, 154 Whiting St.
National Supply Co., 416 W. Grand Ave.
National X-Ray Reflector Co., Jackson Blvd. and Franklin St.
Nugent & Co., Wm. W., 146-148 W. Superior St.
Orton-Steinbrenner Co., 608 S. Dearborn St.
Olmstead, W. A. Scientific Co.
Overbaugh & Ayres Mfg. Co., 411 S. Clinton St.
Oxwold Acetylene Co., 36th and Jasper St.
Pease Co., C. F., 213-231 Institute Pl.
Peerless Ice Machine Co.
Perrin & Co., Wm. R., Old Colony Bldg.
Peterson & Co., Leonard, 1240 Fullerton Ave.

Phoenix-Hermetie Co., 2444 W. 16th St.
*Physicians Laboratory Supply Co., 1234 Marshall Field Annex Bldg.
Pioneer Cooperage Co., 440–446 N. Hoyne St.
Pliable Fire Brick Co., 133 W. Washington St.
Power Engineering Co., Railway Exchange
Power Plant & Specialty Co., 1306 Monadnock Bldg.
Powers Regulator Co., 5 S. Wabash Ave.
Pullman Co., Pullman Bldg.
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.
Raymond Lead Co., S. Huron St.
Redfield, Robert S., 327 S. La Salle St.
Redlich Mfg. Co., 637 W. Oak St.
Redmanol Chemical Products Co., 636 W. 22d St.
Republic Flow Meters Co., 565 Washington Blvd.
Rhodes & Co., James H., 153–159 W. Austin Ave.
Revell & Co., A. H., Wabash Ave.
Ryerson & Son, Joseph T.
Sackett Screen & Chute Co., 1681 Elston Ave.
Salisbury & Co., W. H., 105-07 S. Wabash Ave.
Sanford Mfg. Co., Congress and Peoria Sts.
Sargent & Co., E. H., 155–165 E. Superior St.
Sargeant Steam Meter Co., 2835 Armitage Ave.
Schaar & Co., 1025 S. State St.
Scheidel-Western X-Ray Coil Co., 737 W. Van Buren St.
Schuler Co., J. F., 2428 N. Ashland Ave.
Schultz & Son, A. L., 1675 Elston Ave.
Scully Steel & Iron Co., 24th and Ashland Ave.
Self Cleaning Strainer Co., 6329 Stewart Ave.
Simonds & Co., G. L., 230 S. La Salle St.
Skillin & Richards Mfg. Co., 4520 Cortland St.
Sprague Canning Machinery Co., 220–224 N. Watson St.
Standard Asphalt & Refining Co., 208 S. LaSalle St.
Standard Asphalt & Rubber Co., 137 S. La Salle St.
Standard Diamond Drill Co., First Nat'l. Bank Bldg.
Standard Screen Co., 79–85 Madison Ave., E.
Star Brass Works, The, 3114-22 Carroll Ave.
Stewart Warner Speedometer Co., 1822 Diversey Blvd.
*Stoelting Co., C. H., 3037 Carroll Ave.
Streeter-Amet Weighting & Recording Co., 4101 Ravenswood Ave.
Stroud & Co., E. H., 928–34 Fullerton Ave.
Sturgis & Burn Mfg. Co., 508 S. Green St.
Sullivan Machinery Co., 122 S. Michigan Ave.
Swenson Evaporator Co., 945 Monadnock Bldg.
Tablet & Ticket Co., 628 W. Adams St.
Thordarson Electric Co., 501 S. Jefferson St.
Toledo Steel Barrel Co., 134 La Salle St.
Troy Laundry Machinery Co., 23d and La Salle Sts.
Unger, John S., 3344 Broadway
U. S. Bottlers Machinery Co., 2511 Park Ave.
U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.
U. S. Gypsum Co., 205 W. Monroe St.
U. S. Rocking Grate Bar Co., 20 W. Jackson St.
U. S. Silica Co., 419 People's Gas Bldg.
Universal Engineering Co., 700 W. 22d St.
Valhalla Co., Valhalla Bldg.
Victor Electric Corporation, 236 S. Robey St.
Vitrolite Co., 133 W. Washington St.
Vortex Blow Pipe Co., 151 W. 63d St.
Vulcan Fuel Economy Co., 230 S. La Salle St.
Wagner, Carl H., 1944 N. Albany Ave.
Weber Chimney Co., 332 S. Michigan Ave.
Weller Mfg. Co., 1820 N. Kostner Ave.
Western Steel Car & Foundry Co., 37 W. Van Buren St.
Wednagel & Co., W., 22d and Jefferson Ave., S.
Welch Mfg. Co., W. M., 1516 Orleans St.
Weller Mfg. Co., 1820-1856 Kostner Ave.
Wendnagel & Co., 22d and Jefferson St.
Western Bottle Mfg. Co., 402 W. Randolph St.
Western Electric Co., 500 S. Clinton Ave.
Western Reflector Co., 1015 W. Lake Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Wilson & Bennett Mfg. Co., 65th Pl. and 58th Ave.
Wilson & Co., T. Cortez, 333 W. Lake St.
Wolf Company, Fred W., 827 Rees St.
Yeomans Bros. Co., 231 Institute Pl.

Ill., Chicago Heights
Canedy-Otto Mfg. Co.
Chalmers & Williams, Inc.
Thermalene Co., 17th St. & Lowe Ave.
Weber-Costello Co., Weber Heights

Ill., Danville
Headley Glass Works

Ill., Decatur
Mueller Mfg. Co., H.
Union Iron Works

Ill., Du Quoin
Blakeslee Mfg. Co.

Ill., East Moline
Standard Calorimeter Co.

Ill., East St. Louis
American Carbon & Battery Co.

Ill., Elgin
National Boiler Specialties Co.

Ill., Galesburg
Frost Mfg. Company
Metal Barrel Co.

Ill., Harvey
Whiting Foundry Equipment Co.

Ill., Joliet
Humphrey & Son

Ill., Kewanee
Kewanee Boiler Company

Ill., Moline
Barnard & Seas Mfg. Co.
Williams, White & Co.

Ill., Monmouth
Western Stoneware Co.

Ill., North Chicago
Davis-Watkins Milk Machinery Co.

Ill., Peoria
Stuber & Kuck

Ill., Quincy
Cabinet Mfg. Co., 323-25 Main St.
Gardner Governor Co.
Knittell Show Case Co., J.

Ill., Rockford
Eclipse Fuel Engineering Co.
Ingersoll Milling Machine Co.
Rockford Belting Co.

Ill., Rock Island
Rock Island Plow Co.
Trio Mfg. Co.

Ill., Springfield
Springfield Boiler & Mfg. Co.

Ill., Streator
Western Glass Co.

Ill., Sycamore
Turner Brass Works

Ill., White Hall
Ruckel & Son, A. D.

Ind., Alexandria
Lippincott Glass Co.

Ind., Anderson
Anderson Foundry & Machine Works
Buckeye Mfg. Co.
Dice Machine Co.

Ind., Aurora
Stedmans Foundry & Machine Works

Ind., Brazil
Crawford & McCrimmon Co.

Ind., Columbus
Mooney & Sons, W. W.

Ind., Connersville
Connersville Blower Works
Roots Co., P. H. & F. M.

Ind., East Chicago
Graver Tank Works, Wm.
Green Engineering Co.

Ind., Elkhart
Griffin Engineering & Construction Co.

Ind., Evansville
Uhl Pottery Co.

Ind., Ft. Wayne
Bass Foundry & Machinery Co.
Bowser & Co., S. F.
Good Roads Machinery Co.
Wayne Oil Tank & Pump Co.
Western Gas Construction Co.

Ind., Goshen
I. X. L. Furniture Co.

Ind., Hammond
Betz & Co., Frank S.
McIlroy Belting & Hose Co.

Ind., Indianapolis
American Highspeed Chain Co., 401 S. Illinois Ave.
Atkins & Co., E. C., 402 S. Illinois St.
Castle Refrigerating Machine Co.
Climax Machinery Co., 143 E. Morris St.
Clune Co., M.
Fairmount Glass Works
Galloway Co., Wm.
Hunter Dry Kiln Co., The, 26th and Cornell Ave.
Indiana Fan Co., 40 E. South St.
Keyless Lock Co., 1401 Newman St.
Lyons Atlas Co.
Marietta Glass Co.
Marietta Mfg. Co.
National Malleable Castings Co.
Nordyke & Marmon Co., 1290 Kentucky Ave.
Ott Grinder Co., 217-223 W. Tenth St.
Presto-O-Lite Co., Inc.
Schwartz Sectional System, 312-316 S. New Jersey St.

Ind., Jonesboro
Indiana Rubber & Insulated Wire Co.

Ind., Kendallsville
Baker & Sons, J. R.

Ind., Kokomo
Kokomo Foundry & Machine Co.
Ind., La Porte
Advance-Rumeley Co.
Ind., Marion
Marion Machine Foundry & Supply Co.
Ind., Michigan City
Haskell & Barker Car Co.
Ind., Mishawaka
Dodge Sales & Engineering Co.
Ind., Muncie
Endurance Autoil Co.
Ind., South Bend
Campbell Wire Specialty Works
Cover, H. S., P. O. Box 404
South Bend Chilled Plow Works
Studebaker Corp.
Ind., Terre Haute
O'Neill Bottle Machine Co.
Turner Bros. Co.
Ia., Bettendorf
Bettendorf Co.
Ia., Burlington
Murray Iron Works Co.
Ia., Cedar Rapids
Cherry Co., J. G.
Johnson Gas Appliance Co.
Ia., Davenport
Davenport Locomotive Works
Grupe Drier & Boiler Co., 325-331 E. 2d St.
Scott, C. U., Wall St.
Ia., Decorah
Standard Seed Tester Co.
Ia., Des Moines
Des Moines Bridge & Iron Works
Dodd & Struthers
Ia., Dubuque
Cleveland Mining Co.
McDonald Mfg. Co., A. Y.
Morrison Bros.
Ia., Iowa Falls
Gade Bros. Mfg. Co.
Ia., Marshalltown
Fisher Governor Co.
Dunham Company, C. A.
Ia., Ottumwa
Ottumwa Iron Works
Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.
Ia., Waterloo
Waterloo Gasoline Engine Co.
Kan., Iola
United Iron Works Co.
Kan., Topeka
Steel Fixture Mfg. Co.
Ky., Ashland
Ashland Fire Brick Co.
Ky., Louisville
Ahrens & Ott Mfg. Co., 325 W. Main St.
American Elevator & Machine Co., 309 E. Main St.
Caldwell Co., A. E., Brook and D Sts.
Cowan & Co., Andrew, 435 W. Main St.
Louisville Cooperage Co.
Louisville Pottery Co., Floyd and Bloom Sts.
National Fdy. & Machine Co., 140 W. Main St.
Vogt Machine Co.
Ky., Covington
Kelly-Koett Mfg. Co., The
Ky., Paducah
Paducah Pottery Co.
La., New Orleans
Haubtman & Loeb Co., 1717 Magazine St.
Joubert & Goslin Machine & Foundry Co.
Lockett & Co., Ltd., A. M.
Mente & Co.
Murphy, Jno. H., 643 Magazine St.
Murphy Iron Works, 643 Magazine St.
National Blow Pipe & Mfg. Co., Ltd.
New Orleans Copper Works
Payne & Joubert, 2304 Euphrosine St.
La., Shreveport
Shreveport Blow Pipe & Sheet Iron Works
Whittle Blow Pipe Co.
Me., Auburn
Ideal Desk Co.
Me., Bangor
Eastern Mfg. Co.
Orono Pulp & Paper Co.
Union Iron Works
Me., Bath
Bath Iron Works, Ltd.
Me., Portland
Burgess Sulphite Fibre Co., 440 Commercial St.
Electron Chemical Co., 534 Congress St.
Md., Baltimore
American Compressor & Pump Co., 801-805 E. Pratt St.
Baker Bros. & Co., 118 South St.
Baltimore Cooperage Co., The, 1223 Leadenhall St.
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.
Baltimore Electric Blue Print Co., 10 E. Lexington St.
Baltimore Tube Co., Wicomico and Ostend Sts.
Bartlett-Hayward Co., Scott and McHenry Sts.
Bates Elevator Co., 211 Preston St.
Black & Decker Mfg. Co., 105-15 S. Calvert St.
Bloede Co., Victor G., Caton Ave.

Bloomsburg & Co., H., 425 N. Carey St.
Caroline Foundry Co., 723 S. Caroline St.
Carr-Lowery Glass Co., Westport
Chesapeake Belting Co., 813 Homewood Ave.
Chesapeake Glass Co., 424 W. Conway St.
Codd Company, E. J., 700-708 S. Caroline St.
Crown Cork & Seal Co., Guilford Ave.
Dixie Mfg. Co., Inc., Russell St. and B. & O. R. R.
Druid Oak Belting Co., 111 E. Lombard St.
Gandy Belting Co., 726 W. Pratt St.
Hess Steel Corp., Biddle St. and Loney's Lane
Hull Mfg. Co., J. S., 126 E. Falls Ave.
Maryland Brass Metal Works, Guilford and Girard Aves.
*Meade & Co., Richard K., 608-612 Law Bldg.
Milburn Co., Alex., 1420-26 W. Baltimore St.
Miller Safe Co., Fremont Ave. and Briscoe St.
Monarch Engineering & Mfg. Co., American Bldg.
Mt. Vernon Belting Co., 327 Warren Ave.
Mt. Vernon-Woodberry Mills, Inc., Continental Bldg.
Poole Engineering & Machine Co., Woodberry
Porcelain Enamel & Mfg. Co., O'Donnell and 8th Sts.
Sackett, A. J., 4th Ave. and First Sts.
Southern Can Company, 717 S. Wolfe St.
Swindell Bros., Bayard and Russell Sts.
Thirlkel Can Co., 1109 E. Pratt St.

Md., Cumberland
Cumberland Glass Tube Co.

Md., Hagerstown
Mack Brush Co., E.
Pangborn Corp.

Md., Woodlawn
Powhatan Mining Co.

Mass., Adams
Allen Iron Works

Mass., Andover
Tyer Rubber Co.

Mass., Ashburnham
Almong Mfg. Co., T. R.

Mass., Ashland
Lombard Governor Co.

Mass., Athol
Starrett Co., L. S.
Union Twist Drill Co.

Mass., Boston
Adams Co., J. J., 700 Harrison Ave.
Allen Co., E. H., 41 Beverly St.
American Felt Co., 103 Bedford St.
American Glue Co., 121 Beverly St.
American Incandescent Heat Co., Inc., 10 Post Office Square
American Soda Fountain Co., 282 Congress St.
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
American Tool & Machine Co., 10 High St.
American Water Supply Co., 251 Causeway St.
Ames Plow Co., Quincy Hall
Anderson Mfg. Co., Albert & J. M., 289 A St.
Ashton Valve Co., 271 Franklin St.
Badger & Sons Co., E. B., 63-75 Pitts St.
Badger Fire Extinguisher Co., Inc. 34 Portland St.
Bailey Meter Co., 141 Milk St.
Barney Ventilatine Fan Works, 62 High St.
Bay State Belting Co., 605 Atlantic Ave.
Becker Milling Machine Co., Hyde Park
Berry, Geo. F., 152 Purchase St.
Boston Belting Corporation, 110 Summer St.
Boston Mirror Co., 67 Sudbury St.
Boston Steam Specialty Co., 185 Franklin St.
Bradley Pulverizer Co., 92 State St.
Callahan Co., C., 127 Purchase St.
Claflin Co., C. A., 161 High St.
Clark Co., A. B., 107 South St.
Clinton Wire Cloth Co., Sears Bldg.
Codman & Shurtleff, 15 Elkins St.
Cork Insert Co., 164 Federal St.
Crosby Steam Gauge & Valve Co., 40 Central St.
Downing Grease Co., 16 Waltham St.
Eastern Clay Goods Co., 141 Milk St.
Julian d'Este Co., 26 Canal St.
Electric Blower Co., 352 Atlantic Ave.
Emerson Apparatus Co., 251 Causeway St.
Felters Co., 103 Bedford St.
Fibre Finishing Co., 27 State St.
Flintkote Mfg. Co., 88 Pearl St.
General Welding & Equipment Co., 107 Massachusetts Ave.
Gleeson, Thomas W., 106 Sudbury St.
Globe Optical Co., 403 Washington Ave.
Globe Rubber Works, 45 High St.
Gurney Heater Mfg. Co., 200 Franklin St.

Hawthorne Pharmacy, Dudley and Washington Sts.
Henderson, Geo., 9 Preston St.
Holmes & Blanchard Co., 31 State St.
Huff Electrostatic Separator Co., 60 India St.
International Cotton Mills Corporation
International Equipment Co., 353 Western Ave.
Jacobs & Co., 258 Franklin St.
*Knott Apparatus Co., L. E., Cambridge Station
Knowlton Rubber Co., Geo. W., 60 Pearl St.
Lamson Co., 100 Bolston St.
Leigh & Butler, 232 Summer St.
Library Bureau, 530 Atlantic Ave.
Little Co., Inc., Arthur D., 93 Broad St.
Lloys Co., A. J., 315 Washington St.
Lummus Company, Walter E., 173 Milk St.
Macalaster-Wiggin Co., 79 Sudbury Ave.
Mahady Co., E. F., 671 Boylston St.
Mason Regulator Co., 127 Federal St.
McCallan Co., 11 McCallen St.
McGann & Sons Co., T. F., 114 Portland St.
McLauthlin Co., Geo. T., 120 Fulton St.
McNamara, M., 171 Broadway
Meisel Press Mfg. Co., 950 Dorchester Ave.
Morse & Son, Inc., Andrew J., 221 High St.
National Can Co., 36 Washington St., N.
National Separator & Machine Co., 89 State St.
Nelson Blower & Furnace Co., 11 Elkins St.
New Can Co., 326 A St.
New England Chocolate Machinery Co.
New England Tank & Tower Co.
Nightingale & Childs Co., 205 Congress St.
Orient Spray Co., 98 Dudley St.
*Parks-Cramer Co.
Paul Mfg. Co., 14 Blackstone St.
Plouff Company, 1558 River St., Hyde Park
Randall, Faichney & Co.
Revere Rubber Co.
Rihac Disinfectant Co., 11 Hawkins St.
Riley Co., C. E., 65 Franklin St.
Rowe, L. L., 74 Portland St.
Shackley & Son Co., W. T., 49 High St.
Speares, Alden Sons Co.
Spray Engineering Co., 93 Federal St.
Standard Thermometer Co., 65 Shirley St.
Star Brass Mfg. Co., 103 E. Dedham St.
Strater & Sons, Herman, 74 Sudbury Ave.
Sturtevant Co., B. F., Hyde Park
Sturtevant Mill Co., Harrison Square
Tileston & Hollingsworth Co., 49 Federal St.
United Lined Tube & Valve Co.
Van Noorden & Co., E., 100 Magazine St.
Wadsworth, Howland & Co., 84 Washington St.
Walworth Mfg. Co., 142 High St.
Ward's Sons, Edgar T., 23 Purchase St.
Warren Brothers Company, 142 Berkley St.
Waterhouse Welding Co.
John L. Whiting—J. J. Adams Co., 690 Harrison Ave.
White & Co., C. W., 99 Court St.
White & Son, W. B., 71 Summer St.
Wheeler Reflector Co., 156 Pearl St.

Mass., Brighton
International Equipment Co., 352 Western Ave.

Mass., Brookline
Ritchie & Sons, Edward S.
Holtzer-Cabot Electric Co.

Mass., Cambridge
Ashland Emery & Corundum Co.
Boston Woven Hose & Rubber Co.
Exlon Co., The, 156 6th St.
Guernsey Earthware Co.
*International Instrument Co.
Little Co., Inc., Arthur D.
McElroy Co., P. J.
Morss & Whyte Co., Sidney and Pilgrim Sts.
Riverside Boiler Works, Inc., 491 Main St.
Simplex Tester Co., Harvard Square
Standard Dairy Co.

Mass., Chelsea
Revere Rubber Co.

Mass., Clinton
Clinton Wire Cloth Co.

Mass., Chicopee Falls
National Scale Co.

Mass., East Boston
Mead-Morrison Co.

Mass., East Walpole
Bird & Son

Mass., Fall River
Scott & Co., Ernest, Box 259
Union Belt Co.

Mass., Fitchburg
Brown Bag Filling Machine Co.
Parks Co., G. M.

Mass., Florence
Norwood Engineering Co.
Mass., Foxboro
Bristol Co., Inc.
Foxboro Co., Inc.
Mass., Framingham
Dennison Mfg. Co.
International Engineering Works, Inc. Waverly St.
Manufacturing Equipment & Engraving Co.
Mason & Co., Marcus
Mass., Gloucester
Perkins Box Co.
Mass., Greenfield
Greenfield Tape & Die Corporation
Noyes & Co., B. B.
Mass., Holyoke
Holyoke Belting Co.
Holyoke Machine Co.
Perkins & Son, Inc., B. F.
Mass., Hopedale
Draper & Co.
Mass., Hudson
Universal Boring Machine Co., 30 Tower St.
Mass., Hyde Park
Plouff Co., 1558 River St.
Mass., Lawrence
Norne & Sons Co., J. H.
Mass., Lee
Eaton-Dikeman Co.
Mass., Lowell
Turner Mfg. Co., J. S.
Whiting, Henry F., Shattuck St.
Mass., Lynn
Campbell Electric Co.
Mass., New Bedford
Morse Twist Drill & Machine Co.
Mass., Northampton
Clement Mfg. Co.
Mass., Orange
Chase Turbine Mfg. Co.
Hunt Machine Co., R.
Newt, Rodvey Machine Co.
Mass., Peabody
Turner Tanning Machinery Co.
Mass., Pittsfield
Jones & Sons Co., E. D., 25 Depot St.
Mass., Shelburne Falls
Lamson & Goodnow Mfg. Co.
Mass., Sommerville
Union Glass Co.
Mass., South Boston
Condit Electrical Mfg. Co.
Hersey Mfg. Co.
Mass., Southbridge
American Optical Co.
Mass., Springfield
Gilber & Barker Mfg. Co.
Green Co., Samuel M.
Quigley Furnace & Foundry Co.
Witherbee Igniter Co.
Mass., Taunton
Bay State Crucible Co.
Lincoln-Williams Twist Drill Co.
New Process Twist Drill Co.
Taunton Crucible Co.
Mass., Waltham
Waltham Grinding Wheel Co.
Waltham Machine Works
Superior Corundum Wheel Co.
Mass., Westfield
Planet Co., 170 N. Elm St.
Smith Co., H. B.
Vitrified Wheel Co.
Mass., West Newton
American Electric Tool Co.
Mass., Winchester
Bacon Felt Co.
Mass., Worcester
Bay State Emery Wheel Co.
Coates Cliffin Mfg. Co.
Curtis & Marble Machine Co.
Forbes & Myers
Gratton & Knight Mfg. Co., Franklin St.
Hudson Belting Co.
National Mfg. Co.
Norton Co., New Bond St.
Ramsdell Specialty Co., 679 W. Boylston St.
Reed-Prentice Co.
Rice, Barton & Fales Machine & Iron Co.
Rockwood Sprinkler Co. of Mass., 34-56 Harlow St.
Sleeper & Hartley, Inc., 68 Prescott St.
Spencer Wire Co.
Standard Plunger Elevator Co., 243 Stafford St.
Union Water Meter Co., 41 Harmon St.
Warren Co., J. F. & W. H.
Worcester Pressed Steel Co.
Wright Wire Co., 69 Hammond St.
Mich., Adrian
Page Steel & Wire Co.
Mich., Allegan
Oliver & Co.
Mich., Ann Arbor
*Eberbach & Son Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Mfg. Co.
American Steam Pump Co.
Keyes-Davis Co., Ltd.
Michigan Metal Products Co., 20th and M. C. R. R.
Taylor Steam Specialty Co.
Union Steam Pump Co.
Mich., Bay City
Bay City Foundry & Machine Co.
Bay City Iron Works
Garland Co., M.

Industrial Works
MacKinnon Boiler & Machine Co.
Mich., Buchanan
Celfor Tool Co.
Mich., Detroit
Acme Fancy Wire Works, Canfield Ave & Moran St.
American Blower Co., 1400 Russell Ave.
Briscoe Mfg. Co., 1443 Woodward Ave.
Central Station Steam Co., 710 E. Woodbridge St.
Clayton & Lambert Mfg. Co., 201 Piquette Ave., E.
Colton Co., Arthur, 782 E. Jefferson Ave.
Detroit Blowpipe Co., 551 Grand River Ave.
Detroit Brass Works
Detroit Copper & Brass Rolling Mills, 95 Clark Ave., P. O. Box 818
Detroit Dental Mfg. Co., 22 Milwaukee Ave.
Detroit Engine Co., 1250 Jefferson St.
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
Detroit Grinding Wheel Co., Jefferson and Field Sts.
Detroit Heating & Lighting Co., 335 Wight St.
Detroit Leather Specialty Co., Inc.
Detroit Lubricator Co.
Detroit Oak Belting Co., 266 Wight St.
Detroit Range Boiler Co., 619 24th St.
Detroit Seamless Steel Tube Co., 841 Jefferson Ave., W.
Detroit Shipbuilding Co., Orleans St.
Detroit Steel Castings Co.
Detroit Steel Cooperage Co.
Detroit Tool Co.
Detroit Twist Drill Co., 634-46 Fort West
Detroit Wire Cloth Co., 504 Howard St.
Diamond Power Specialty Co.
Eckliff Automatic Boiler Circulator Co.
General Aluminum & Brass Castings Co., East Grand Blvd.
Hoskins Mfg. Co., 453-471 Lawton Ave.
Hygeia Filter Co.
Johnson Optical Co., 66 State St.
Kerr Machinery & Supply Co.
McCord Mfg. Co., 2587 E. Grand Blvd.
Mead & Co., 19th St. and M. C. R. R.
Merz Capsule Co.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
Michigan Wire Cloth Co., 536 Howard St.
Moore & Son Co., E. C.
National Twist Drill & Tool Co.
Northern Engineering Works
Parke, Davis & Co.
Penberthy Injector Co.
Peninsular Emery Wheel Co., 253 Meldrum Ave.
Precision Instrument Co., Fort and Wayne Sts.
Robert Instrument Co., 56 Shelby St.
Russell Wheel & Foundry Co.
Scientific Instrument Co., 134 E. Larned St.
Star Corundum Wheel Co., 241 Cavalry Ave.
Steere Engineering Co., Woodward Ave.
Stevens Mfg. Co., Roe
Trippensee Mfg. Co., 2679 E. Grand Blvd.
Truns-Con. Laboratories, Caniff Road and G. T. R. R.
Trussed Concrete Steel Co.
U. S. Radiator Corporation
Welded Steel Barrel Corporation.
Zenner Disinfectant Co., 80 Lafayette St.
Mich., Grand Rapids
Clipper Belt Lacer Co., 974-1016 Front Ave., N. W.
Grand Rapids Brush Co.
Grand Rapids Chair Co.
Gunn Furniture Co.
Haney School Furniture Co.
Hart Mirror Plate Co.
Macey Co.
Phoenix Furniture Co.
Raniville Co., F., 241-243 Pearl St.
Sterling Desk Co.
Terrell's Equipment Co.
Wagemaker Co.
Mich., Holland
Novelty Wooden Shoe Co
Mich., Jackson
Knickerbocker Co.
Mich., Kalamazoo
Clarage Fan Co.
Kalamazoo Tank & Silo Co.
National Vaporizer Co.
Upjohn Co.
Mich., Lansing
*Apparatus & Specialty Co.
Lansing Co.
Michigan Screw Co.
Mich., Manistree
Manistree Iron Works Co.
Mich,, Muskegon
Muskegon Boiler Works, Eighth St.
Shaw-Walker Co., The
Mich., Miles
Acme Belting Co.
National Standard Co.
Mich., Otsego
Bardeen Paper Co.

Mich., Petoskey
Blackmer Rotary Pump Co.
Mich., Saginaw
Allington & Curtis Mfg. Co.
Mitts & Merrill, 816 S. Franklin St.
Nickle, Frank H., 1321 N. Bond St.
U. S. Graphite Co.
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Wickes Boiler Co.
Wickes Bros., 512 Water St.
Willcox Engineering Co.
Mich., Three Rivers
Sheffield Car Co.
Minn., Duluth
Clyde Iron Works, 29th Ave. West of Michigan Ave.
Union Match Co.
Minn., Mankato
Little Giant Co., 198 Rock St.
Minn., Minneapolis
Decarie Incinerator Co.
Electric Machinery Co.
Mahr Manufacturing Co. 1300-1310 Quincy St.
McCord & Co., Horace M., 1013 Lumber Exchange
Mereen-Johnson Machine Co.
Minneapolis Heat Regulator Co., 2747 4th Ave., S.
Minneapolis Steel & Machinery Co.
Sikes Co., S. E.
Western Crucible Steel Castings Co.
Zenith Scientific Laboratories, 21 5th Ave., N. E.
Minn., North St. Paul
Minneapolis Manufacturing Association.
Minn., Red Wing
Red Wing Iron Works
Minn., St. Paul
American Hoist & Derrick Co.
Helwig Mfg. Co.
Minn., West Duluth
Carbic Mfg. Co.
Minn., Winona
Union Fibre Co.
Mo., Kansas City
Brown Bed Mfg. Co., 4300 12th St.
Columbian Steel Tank Co.
Excelsior Powder Co.
U. S. Portland Cement Co.
Mo., Racine
Seneca Tripoli Co.
Mo., St. Joseph
St. Joseph Pump & Mfg. Co.
Mo., St. Louis
Aloe Co., A. S., 510 Olive St.
Alvey Mfg. Co., 3201 S. Broadway
American Car & Foundry Co., 915 Olive St.
American Electric Machine & Elevator Co., 1706 N. 12th St.
American Oleite Sales Co., 1404 N Park Pl.
Arrow Boiler Compound Co., Commonwealth Trust Bldg.
Aufrichtig Copper & Iron Works, 900 S. Third St.
Barry-Wehmiller Machine Co., 6501 Florissant Ave.
Bayer Steam Soot Blower Co., 2828-40 La Salle St.
Bemis Bros. Bag Co., 600 S. 4th St.
Brecht Co., 1252 Cass Ave.
Certain-teed Products Corp., 314 N. Broadway
Columbia Can Co., Madison and 1st St.
Cook Cane Mill & Evaporator Co., 320 N. 2d St.
Cramer Dry Plate Co., G., Lemp and Shenandoah Aves.
Defender Automatic Regulator Co., 506 Oriel Bldg.
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
Evans & Howard Fire Brick Co., 920 Market St.
Famous Filter Co., 301 N. Commercial St.
Flower Co., W. L., 310 S. 8th St.
Fulton Iron Works, 1257-61 Delaware Ave.
General Roofing & Mfg. Co.
Girtanner-Daviess Eng. & Contg. Co.
Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.
Hammer Dry Plate Co., Ohio Ave. and Miami St.
Handlan-Buck Mfg. Co., 212 3d Ave.
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Henderson-Willis Welding & Cutting Co., 2305-09 N. 11th St.
Hoyt Metal Co., 300 N. Broadway
Hydraulic Pressed Brick Co.
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
Lane & Co., J. H., 334 4th Ave.
Ludlow-Saylor Wire Co., Newstand Ave. and Wabash R. R.
Medart Mfg. Co., Fred, Dekalb and Potomac Sts.
Mississippi Glass Co.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
Modern Engineering Co., 23d and Walnut Sts.
Nelson Mfg. Co., 10th and Chestnut Sts.
Porbeek Dust Arrester & Blow Pipe Co., 2017 N. Broadway
Reardon Glue Mfg. Co., 1532 N. Broadway
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.

St. Louis Brass Mfg. Co., Jefferson and Washington Aves.
St. Louis Car Co., 8000 N. Broadway
St. Louis Cooperage Co.
St. Louis Machine Tool Co., 2607 S. Broadway
St. Louis Paper Can & Tube Co., 4400 Union Blvd.
*Simmons Hardware Co.
Skinner Bros. Mfg. Co., 100 Tyler Ave.
Walsh Fire Clay Products Co.
Weber & Co., F., 825 Washington Ave.
Wissler Instrument Co., 615 N. Broadway
Zellweger & Sons, John, 1900 Adelaide Ave.

Mo., Springfield
Union Iron Works Co.
United Iron Works

Neb., Lincoln
Lee Broom & Duster Co.

Neb., Omaha
Baker Ice Machine Co.

N. H., Alton
Rockwell, Clough Co.

N. H., Dover
Williams & Sons, I. B.

N. H., Lakeport
Bickford & Co., H.

N. H., Nashua
Proctor Bros. & Co., Marshall St.

N. J., Aldena (Roselle P. O.)
Watson Stillman Co., The

N. J., Ampere
Crocker, Wheeler Co.

N. J., Arlington
Delaware Tin Corporation
Lovell & Co., F. H.

N. J., Asbury; Warren County
Asbury Graphite Mills

N. J., Rawlinsville
Morris Machine Works

N. J., Bayonne
Bayonne Bolt & Nut Co.
Bayonne Castings Co.
Bergen Point Iron Works, W. 5th St.
Cox Engineering & Tube Bending Machine Works
Duryea Mfg. Co.
Standard Oil Co.

N. J., Belleville
Bartlett Vacuum Jar Co.
Hardman Tire & Rubber Co.

N. J., Bloomfield
Condensite Co. of America
Empire Cream Separator Co.

N. J., Bridgeton
Cox & Sons Co.
Cumberland Glass Mfg. Co.

N. J., Burlington
Stuart & Peterson Co.
U. S. Cast Iron Pipe & Foundry Co.

N. J., Camden
Webster & Co., Warren, Point and Pearl Sts.

N. J., Carteret
Sheller Condenser & Engineering Co.

N. J., Chrome
Chrome Steel Works

N. J., Dunellen
Ransome Concrete Machinery Co.

N. J., East Carteret
Wheeler Condenser & Engineering Co

N. J., East Orange
New York Blower Co.
Smith Mfg. Co., A. P.

N. J., Elizabeth
American Metal Treatment Co.
Bayway Chemical Co.
Braunsdorf Mueller Co.
Diehl Mfg. Co.
Moore & Sons Corp., Samuel L.

N. J., Flemington
Fulper Pottery Co.

N. J., Garwood
Beckley Perforating Co., North Ave.
Garwood Bronze & Iron Works

N. J., Glassboro
Whitney Glass Works

N. J., Haddonfield
Wingender & Bro., Chas.

N. J., Hamilton Square
Mercer Rubber Co.

N. J., Hampton
Standard Water Systems Co.

N. J., Harrison
Driver-Harris Co.
Hyatt Roller Bearing Co.
Shriver & Co., T.

N. J., Hoboken
Cooper-Hewitt Electric Co., 8th and Grand Sts.
Daube & Hopkins Co.
*Keuffel & Esser Co.
Schrenk & Co.
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.

N. J., Jersey City
Booth Co., L. M., 6 Hudson St.
Corcoran, Inc., A. J., 763 Jersey Ave.
Daube & Hopken
Davis-Bournonville Co.
Dixon Crucible Co., Joseph
Drop Forging Co., 299 West Side Ave
Gautier & Co., J. H.
Koven & Bro., L. O., 154 Ogden Ave.
N. Y. Revolving Portable Elevator Co., 346-352 Garfield Ave.
Otto Metal Goods Corporation, Wm. H., 401 St. Pauls Ave.
Revolvator Co., 344-52 Garfield Ave.
Standard Motor Construction Co 172-80 Whiton St.

N. J., Manville
Johns-Manville Co.

N. J., Matawan
Munning-Loeb Co.
N. J., Millville
International Glass Co.
Millville Bottle Works
Wheaton Co., T. C.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
Alpha Alcohol Utensil Co., 367 N. 5th St.
Alpha Mfg. Co.
American Platinum Works, 225-231 New Jersey R. R. Ave.
American Thermostat Co., 101 Mechanic St.
American Transformer Co., 174-182 Emmet St.
Atha Toll Co., Ft. Chapel St.
Automatic Weighing Machine Co., 134-140 Commerce St.
Baker & Co., Inc., 54 Austin St.
Bernx, Otto, 21 Ashland Ave.
Bishop & Co., Inc.
Burroughs Co., Charles, 141-149 Commerce St.
Coe & Co., C. T., 10-14 Johnson St.
Couse & Bolton, 42-46 Lafayette St.
Currier & Sons, Cyrus
Electric Heating Apparatus Co., 123-125 Sussex Ave.
Essex Foundry, Murray St. and Ave. D
Faber, A. W., 41 Dickerson St.
Gamon Meter Co., 282-296 South St.
Gould & Eberhardt
Greef Engineering & Mfg. Co., 36 Spring St.
*Hanovia Chemical & Manufacturing Co., Chestnut St. and N. J. Railroad Ave.
Hanson & Van Winkle Co., 269 Oliver St.
*International Oxygen Co., 796 Frelinghuysen Ave.
Isbell-Porter Co.
Johnson, Wm., 88 Warren St.
McCabe Boiler Works, 195 Commerce St.
Manufacturers Can Co., 426 Mulberry St.
Metal Products Co.
National Lock Washer Co.
Newark Brass Works, 20 Lawrence St.
Newark Chamois Co.
Newark Cork Works, 39 Barbara St.
Newark Gear Cutting Machine, 69 Prospect St.
Newark Wire Cloth Co., 222-228 Verona Ave.
N. J. Wire Cloth Co.
Rossendale-Reddaway Belting & Hose Co., Euclid Ave.
Sayre & Son, L. A., 332 Mulberry St.
Sloan & Chance Mfg. Co., Ltd., 6th Ave., cor. N. 13th St.
Storm Mfg. Co., 50 Vessey St.
Thermo Electric Instrument Co., 8 Johnson St.
Tobin & Co., James L., 279 Oraton St.
Webb Mfg. Co., Foot of Centre St.
Weston Electrical Instrument Co., Waverly Park
Williamson Wire Works, C. T.
N. J., New Brunswick
Brunswick Refrigerating Co.
Goetze Gasket & Packing Co.
India Rubber Co.
Pennsylvania Rubber Co.
N. J., New Jersey
Flynn, W. S.
Flynn, W. S., 74 Hudson St.
Smooth-on Mfg. Co., 570-74 Communipaw Ave.
N. J., Nutley
Booth Co., L. M., 120 Center St.
N. J., Orange
Edison Storage Battery Co.
N. J., Passaic
Brighton Mills
Dick, Ltd., R. & J.
Manhattan Rubber Mfg. Co.
Pantasoto Leather Co.
Richardson Scale Co.
N. J., Paterson
Watson Machine Co., 74 R. R. Ave.
N. J., Perth Amboy
Chemical Pump & Valve Co.
Didier-March Co., P. O. Box 327
Pardee Works, C.
N. J., Plainfield
New Jersey Meter Co.
Rubber Insulated Metals Co.
N. J., Rochester
Rochester Stamping Co.
N. J., Rutherford
Becton, Dickinson Co.
N. J., Trenton
Acme Rubber Mfg. Co.
Bartley Crucible Co., J.
Consolidated Rubber Co.
Crossley Machine Co., Bell and Monmouth Sts.
De Laval Steam Turbine Co.
Empire Rubber & Tire Co.
Hamilton Rubber Mfg. Co.
Home Rubber Co.
Luzerne Rubber Co., Muirheid Ave.
Maddock Sons Co., Thomas
New Jersey Wire Cloth Co.
Pyrolectric Instrument Co., 636-640 E. State St.
Roebling's Sons Co., John A.
Stokes Rubber Co., Jos.
Thermoid Rubber Co.

Trenton Potteries Co.
United & Globe Rubber Mfg. Co.

N. J., Vineland
Doerr Glass Co., Peach St. and Boulevard
Durand Glass Co.
Kimball Glass Co.
Sayford Paper Specialty Co.

N. J., Williamstown
Williamstown Glass Co.

N. J., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.

N. Y., Albany
Consolidated Car Heating Co., 413 Pearl St.
Huyck & Sons, F. C.
Townsend Furnace & Machine Shop Co., Broadway and Rensselaer St.

N. Y., Amsterdam
Klauder-Weldon Dyeing Machine Co.

N. Y., Ancram
Ancram Paper Mills

N. Y., Auburn
Columbian Rope Co., 3050-75 Genesee Ave.
Jewell Mfg. Co.

N. Y., Baldwinsville
Morris Machine Works

N. Y., Beacon
Green Fuel Economizer Co.

N. Y., Binghamton
Ansco Co.
Jones of Binghamton, Inc.

N. Y., Bladsell
Exolon Company

N. Y., Bronxville
Ward, Leonard Electric Co.

N. Y., Brooklyn
Abernethy, John F., 703 Myrtle Ave.
Acton, John, 118 John St.
Adams Co., J. J., 122 Greenpoint Ave.
Arwe Mfg. Co., Carl H., 1348 DeKalb Ave.
Atlantic Smelting & Refining Works, 36-42 Delaran St.
Berg Mfg. Co., James, 3702 12th Ave.
Bliss Co., E. W., 19 John St.
Booth Felt Co., Inc., 440 19th St.
Brandis & Sons Mfg. Co., 754 Lexington Ave.
Brooklyn Filter Bag Co., 643 Kent Ave.
Burh Demijohn Co.
Burkhard, Inc., Thomas, 494 Flushing Ave.
Crowell Mfg. Co., 298 Taaffee Pl.
Boehler Die-Castings Co., 9th and Court Sts.
Empire Tinware Co., 31 S. 5th St.
Faber, Eberhard, 137 Greenpoint Ave.
Gehnrich Indirect Heat Oven Co., Inc., 60-62 Franklin Ave.
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
Green, Henry J., 1191 Bedford Ave.
Guild & Harrison, 463 Kent Ave.
Hald Blow Pipe Works, Emil, 84 Oak St.
Hauck Mfg. Co., 101–113 Eleventh St.
Hay-Budden Mfg. Co., 256 N. Henry St.
Hindley & Pendleton Co., 74 Greenpoint Ave.
Houchin-Aiken Co., 113 53d St.
Howard & Morse, 1197-1211 De Kalb Ave.
Hubbard's Sons, Norman, 265 Water St.
Improved Appliance Co., 413-419 Kent Ave.
International Cork Co., 99 Sutton St.
Johnson Co., Jno., 37th and 2d Ave.
Katz & Co., Wm.
Kent Inc., Robert Sayre, 50 Court St.
Kent Mill Co., 10 Rapelyea St.
Kessling, E., 1027 Madison Ave.
Krajewski Pesant Corp., 52 Beard St.
Johnson Co., J. D., 51 Boerum Pl.
Leffler & Co., Chas., 49-73 Clymer St.
Lowerator Co., Inc., 631 Kent Ave.
Lutz Mfg. Co., 162 Albany Ave.
Meadon's Blower & Pipe Works, 23-27 Meserole Ave.
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.
Moeller, A. E., 263 Sumpter St.
Moller & Schuman Co., Marcy and Flushing Aves.
Monarch Valve Co., 112 Front St.
Moussette Co., Inc., O. J., 22-26 Clay St.
Mundet & Son, L., King and Ferris St.
National Filter Cloth & Weaving Co., 57 Hope St.
National Gauge Co., 300 Pacific St.
New York Leather Belting Co., 465 Kent Ave.
New York Stamping Co., N. 11th and Berry Sts.
Paddock Cork Co., 1209 DeKalb Ave.
Phenix Tube Co., 182 N. 11th St.
Phoenix-Hermetic Co., 38th and 14th Ave.
Pioneer Iron Works, 149 Pioneer St.
Planten & Sons, H., 93 Henry St.
Robertson & Co., John, 133 Water St.
Ross & Son Co., Chas.
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Silver & Co., 304 Hewes St.
Standard Rolling Mill, 363 Hudson Ave.
Sternau & Co., S., 160 John St.

Sunlight Reflector Co., 141 Court St.
Tagliabue Mfg. Co., C. J., 18 33d St.
Trustlow & Fulle, Inc.
Vant-Woud Rubber Co.
Vogel & Bros., Wm., 47 S. 9th St.
Ward, Marcus Co.
Wilfort Co., John, 258 Broadway
Wilhelm, Henry, 70 Frost St.
Williams & Co., J. H., 73 Richards St.

N. Y., Buffalo
Acme Steel & Malleable Iron Works
Aldrich Manufacturing Co., 55 Illinois St.
Barcalo Mfg. Co.
Bicalky Fan Co., 866 Prospect Ave.
Bickford & Francis Belting Co.
Buffalo Copper & Brass Rolling Mill, 446 Military Road
Buffalo Dental Mfg. Co., 587 Main St.
Buffalo Engineering Co., Erie County Bank Bldg.
Buffalo Forge Co., 490 Broadway
Buffalo Foundry & Forge Co.
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Buffalo Meter Co., 2913 Main St.
Buffalo Scale Company, 1200 Niagara St.
Buffalo Steam Pump Co., 480 Broadway
Buffalo Wire Works Co., 500 Terrace St.
Century Telephone Construction Co., 1738 Elmwood Ave.
Cling-Surface Company
Crandall Can Filler Machine Co., 1394 Niagara St.
Cox Process Co.
Crosby Co., 137 Pratt St.
Cutler Desk Co., 34 Churchill St.
Devine Company, J. P., 1376-1388 Clinton St.
Excelsior Steel Ball Co.
Farrar & Trefts, Inc., 47 Perry St.
General Specialty Co., 291-295 Michigan Ave.
Hercules Waterproof Cement Co., Mutual Life Bldg.
Hewitt Rubber Co., 240 Kensington Ave.
Hoover & Strong, 119 Tupper St.
Kelker Blower Co., 2383 Fillmore Ave.
Lobee Pump Works, 19-31 Bridge St.
Lowers Mfg. Co.
Lumen Bearing Co., 1155 Sycamore St.
National Grinding Wheel Co., Inc.
Pierce Co., William E., 45 N. Division St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
Republic Metalware Co., 100 Alabama Ave.
Rice & Adams Corporation
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
Ruger Mfg. Co., 222 Chicago St.
Sherwood Mfg. Co., 1702 Elmwood Ave.
Sowers Mfg. Co., 1300 Niagara St.
Spencer Lens Co., 442 Niagara St.
Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.
Stowe, Geo. M. Jr., 119 Dearborn St.
Taber Pump Co.
Trout Co., H. G., 226 Ohio St.
Zaremba Co., D. S. Morgan Bldg.

N. Y., Burlington
Stuart & Peterson Co.

N. Y., Camden
Webster & Co., Warren

N. Y., Canandaigua
Lisk Mfg. Co.

N. Y., Carthage
Carthage Machine Co.
Carthage Sulphite Pulp & Paper Co.

N. Y., Corning
Corning Glass Works

N. Y., Cortland
Champion Milk Cooler Co.

N. Y., Dunkirk
Atlas Crucible Steel Co.

N. Y., Elmira
American-La France Fire Engine Co., Inc.
Kennedy Valve Mfg. Co.
Wyckoff & Son Co., A.,

N. Y., Frankfort
Acme Road Machinery Co.

N. Y., Franklinville
Ontario Knofe Co.

N. Y., Fulton
Fulton Aluminum Works

N. Y., Geneva
Chapman Co.

N. Y., Glen Cove
Ladew Co., Inc., Edward R.

N. Y., Glen Falls
Glen Falls Machine Works

N. Y., Gloucester
Welsbach Co.

N. Y., Hillburn
Ramapo Iron Works

N. Y., Hoboken
Cooper-Hewitt Electric Co., 8th and Grand Sts.
Tidewater Iron Works, 725 Jefferson St.

N. Y., Hudson
Clifford-Wood Co.

N. Y., Ithaca
Morse Chain Co.
Morse Thermo-Gage Co., Inc.

N. Y., Jamestown
Art Metal Construction Co.
Dahlstrom Metallic Door Co., 10 Blackstone Ave.

Jamestown Window Screen Co.
Watson Mfg. Co.
N. Y., Kingston
Universal Road Machinery Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., Lancaster
Lancaster Machine & Knife Works
N. Y., Little Falls
*Burrell & Co., D. H.
N. Y., Livingston
Hunt Co., C. W.
N. Y., Lockport
Fibre Corporation
Merritt Mfg. Co.
N. Y., Long Island City
Anthony Company, 138 West Ave.
Commercial Research Co.
Horn Company, A. C., Horn Bldg.
Jensen Creamery Machine Co.
Leddell Metals Co., 285 Border St.
Rubber Stopper Co.
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.
Surface Combustion Co., Wilbur Ave. and Sunswick St.
N. Y., L. I., Rockville Centre
Nassau Valve & Pump Co., Inc.
N. Y., Mariners Harbor
Waters Co., Geo. H.
N. Y., Mechanicsville
Mechanicsville Specialty Supply Co.
N. Y., Mt. Lebanon
Wagan & Co., R. M.
N. Y., Napanoch
Frost & Son Paper Co.
N. Y., Newburgh
Coldwell-Wilcox Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbé, Paul O., 30 Broad St.
Acetylene Gas Illuminating Co., 405 Broome St.
Acme Diamond Tool Co., 56 Liberty St.
Acme Tank Co., 39 Cortlandt St.
Aero Pulverizer Co., 120 Broadway
Aetna Explosives Co., 12 Rector St.
Aetna Steel Products Co., Inc., 40 Church St.
Aimone Mfg. Co., 430 E. 23d St.
Air Reduction Sales Co., 120 Broadway
Akerlund & Semmes, Inc., 17 Battery Pl
Alberger Pump & Condenser Co., 140 Cedar Ave.
Alberene Stone Co., 223 E. 23d St.
Allan & Son, A., 494 Greenwich St.
Aluminum Goods Mfg. Co., 30 Church St.
Amalgamated Paint Co., 42 Broadway
American Brass Forging Co., Inc., 168 Southern Blvd.
American Bridge Co., 30 Church St.
American Can Co., 120 Broadway
American Car & Foundry Co., 165 Broadway
American Cart Foundry Co., 165 Broadway
American Enameled Brick & Tile Co., 52 Vanderbilt Ave.
American Ever Ready Co., 304 Hudson Ave.
American Foundry Equipment Co., 52 Vanderbilt Ave.
American Gas Furnace Co., 24 John St.
American Glue Works, 14 Ferry St.
American Hard Rubber Co., 11 Mercer St.
American Iron Scale Co., 430 E. 53d St.
American Kron Scale Co., 430 E. 53d St.
American Lead Burning Corp., 30 Church St.
American Lead Pencil Co., 220 5th Ave.
American Metal Co., Ltd., 61 Broadway
American Meter Co., 105 W. 40th St.
American Mica Co.
American Process Co., 68 William St.
American Rust Proof Co., 39 Church St.
American Scientific Instrument Co., Inc., 50-56 John St.
American Smelting & Refining Co., 120 Broadway
*American Sponge & Chamois Co., Inc., 73 Wooster St.
American Spray Co., 26 Cortland St.
American Steel Co., 45 W. 34th St.
American Thermo-Ware Co., 16 Warren St.
Ajax Grieb Rubber Co., 1796 Broadway
Andrews, Inc., William, 120 Liberty St.
Angel & Co., Inc., Reeve H., 120 Liberty St.
Asbestolith Mfg. Co., 1 Madison Ave.
Asbestos Textile Co., Woolworth Bldg.
Ashenfarb, S. L., 356 W. Broadway
Automatic Sprinkler Co. of America, 123 William St.
Babcock & Wilcox Co., 85 Liberty St.
Bache, Semon & Co., West & Hubert St.
Barowsky, Hans, 32 Union Square
Barrett Co., The, 17 Battery Pl.
Bauer & Black, 104 E. 25th St.
Beach-Russ Co., 220 Broadway
Becker, Inc., Christian, 92 Reade St.
Beggs & Co., James, 36 Warren St.
*Behrend, F., 54 Front St.

*Berge, J. & H., 95 John St.
Bernard & Co., F. J., 70 Murray St.
Best, Inc., W. N., 11 Broadway
Bethlehem Foundry & Machine Co., 149 Broadway
Binney & Smith Co., 81 Fulton St.
Bishop Gutta Percha Co., 420 E. 25th St.
Blake & Knowles Steam Pump Works, 115 Broadway
Boettinger Co., Louis A., 48 Leonard St.
Bogert & Hopper, 162 William St.
Bohemian Glass Works, 10 Platt St.
Bonner & Barnwell, Inc., 30 Church St.
Bontempi Rust Proofing Co., 1 W. 34th St.
*Borgfeldt & Co., Geo., 16th and Irving Pl.
Bosch Magneto Co., 223-25 W. 46th St.
*Bouline, Victor J., 1 Union Square
Boyle & Co., John, 112 Duane St.
Bradley & Smith, 261 Pearl St.
Branhall-Deane Co., 261 W. 36th St.
Bronze Metal Co., 30 Church St.
Brown Co., The A. & F., 79 Barclay St.
Buchanan Co., Inc., C. G., 90 West St.
Bunnel & Co., J. H., 32 Park Pl.
Burhorn Co., Edwin, 71 Wall St.
Cameron Steam Pump Works, A. S., 11 Broadway
Carrier Air Conditioning Co. of America 490 Broadway
Carrier Engineering Corp., 39 Cortland St.
Cave Welding & Mfg. Co., 32 Liberty St.
Celite Products Co., 11 Broadway
Celluloid Zapon Co., 200 5th Ave.
Central Belting Co., 151 Lafayette St.
Central Foundry Co., 90 West St.
Central Stamping Co., 174 Fulton St.
Chatillon & Sons, John, 85-93 Cliff St.
Clothel Company, 61 Broadway
Colwell Cooperage Co., 412-414 Greenwich St.
Columbian Bronze Corporation, 50 Church St.
Combustion Engineering Corp., 11 Broadway
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Consolidated Fruit Jar Co., 290 Broadway
Conveying Weigher Co., 90 West St.
Cordley & Hayes, 7 Leonard St.
Cooling Tower Co., Inc., The, 17 John St.
Consolidated Dental Mfg. Co., 134 Washington Pl.
Cooper & Co., Chas. 194 Worth St.
Cornell Iron Works, 26th and 11th Ave.
Cravenette Co., U. S. A., 354 4th Ave.
Deeley & Co., Robert, 29 Broadway
Demuth Glass Mfg. Co., 32 W. Broadway
Diamond Drill Carbon Co., 53-63 Park Row
Diamond Expansion Bolt Co., 90 West St., cor. Cedar
DeLaval Separator Co., 165 Broadway
Dicks Slosson Co., Inc., 302 Broadway
De La Vergne Machine Co., 1123 E. 138th St.
Dominion Asbestos & Rubber Corporation, 154 Nassau St.
Doniger & Co., 164 5th Ave.
Dorl & Co., F., Park Row Bldg.
Dorr Co., The, 101 Park Ave.
Dougherty, J. T., 409 W. 59th St.
Dover Boiler Works, 55 Church St.
Dreadnaught Flooring Co., Madison Ave. and 42d St.
DuBois & Co., F. N., 245 9th Ave.
Du Pont Chemical Works, 120 Broadway
Duriron Castings Co., 90 West St.
DuViver, Ernest H., 30 Church St.
Dwight & Lloyd Sintering Co., 29 Broadway
Eagle Pencil Co., 377 Broadway
Easton Car & Construction Co., 30 Church St.
Eimer & Amend, 205-11 3d Ave.
Electrolytic Engineering Corporation, 501 Fifth Ave.
Electrolytic Oxy-Hydrogen Labs., Inc., 15 William St.
Electric Weighing Co., 180 13th St.
Electro Importing Co., 233 Fulton St.
Elgin Brass Co., 94 John St.
Empire Laboratory Supply Co., 411 Lexington Ave.
Engelhard, Charles, 30 Church St.
Equitherm Control Corp., 30 Church St.
Estes & Sons, E. B., 362 5th Ave.
Estey Wire Works, 32 Cliff St.
Everlasting Valve Co., 2 Rector St.
Fairbanks Co., 416 Broome St.
*Farrell, W. J., 115 Maiden Lane
Federal Terra Cotta Co., 103 Park Ave
Foote, Pierson & Co., 160 Duane St.
Foundation Co., The, Woolworth Bldg.
Fortuna Machine Co., 127 Duane St.
Fougera & Co., E., 90 Beekman St.
Frasse & Co., Inc., Peter A., 417 Canal St.
Frink, Isaac P., 551 Pearl St.
Fuerst Bros. & Co., 2 Stone St.
Furman-Fisher Corporation, 30 Church St.
Garrigue & Co., Wm., 154 Nassau St.
Gary Co., Theo. H., 67 Irving Pl.
General Bakelite Co., 2 Rector St.

Gedney Capsule Co., 767 E. 133d St.
General Briquetting Co., 25 Broad St.
General Ceramics Co., 50 Church St.
General Elevator Co., 29 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Gennert, G., 24 E. 13th St.
Gerdes & Co., Inc., 36 Church St.
Goebel & Co., J., 129 Maiden Lane
Goepel & Co., C. F., 137 E. 13th St.
Gold Car Heating & Lighting Co., 17 Battery Pl.
Goodyear Glove Co., 503 Broadway
Goodyear Rubber Co., 787 Broadway
Gordon Dryer Corporation, 39 Cortland St.
Gordon Engineering Corp., 39 Cortlandt St.
Grafrath, Chas., 360 W. 50th St.
*Graham & Berwin, (Imp.), 148 Chambers St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Graham & Co., John H., 113 Chambers St.
*Graham & Zenger, Inc., (Imp.) 104 5th Ave.
Grand Rapids Show Case Co., 724 Broadway
Grape Capsule Co., 108 Fulton St.
Green Fuel Economizer Co., The, 90 West St.
Greene, Tweed & Co., 109 Duane St.
*Greiner Co., Emil, 55 Fulton St.
Griscom-Russell Co., 90 West St.
Guarantee Construction Co., 90 West St.
Gutman & Co., Ferdinand, 175 Franklin St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Guttman, A., 10 McDougal St.
Haiss Mfg. Co., Geo., 141st and Rider Ave.
Hahn, A. W., 359 Greenwich St.
Hammel Oil Burning Equipment Co., 350 Pearl St.
Hardinge Conical Mill Co., 120 Broadway
Hardmuth, L. & C., 34 E. 23d St.
Haring, Ellsworth, 114-18 Liberty St.
Hastings Pavement Co., 25 Broad St.
Hayes Duster Co., 83 Grand Ave.
Hayward & Co., S. F., 250 W. 54th St.
Hayward Co., 50 Church St.
Henry-Bonnard Bronze Co., 50 Exchange Pl.
Hepworth Co., S. S., 2 Rector St.
Hercules Engineering Corporation, 501 Fifth Ave.
Higley Machine Co., Singer Bldg.
Hirshberg Co., H. M., 853 Broadway
Hodgman Rubber Co., 806 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Holophane Glass Co., Inc., 240 Madison Ave.
*Holz, Herman A., Metropolitan Tower
Hooker Electro Chemical Plants, 40 Wall St.
Hospital Supply Co., 55 5th Ave.
Houchin Co., Thos. W., 38 E. 21st St.
Howe Scale Co., of New York, 341 Broadway
Hungerford Brass & Copper Co., U. T., 84 La Fayette Ave.
Hydrex Felt & Eng. Co., 120 Liberty St.
Hydro-Pneumatic Disinfecting Co., 221 Mercer St.
Ilsley, Doubleday & Co., 229 Front St.
Imex Corp., 25 Beaver St.
Improved Equipment Co., 60 Wall St.
Independent Filter Press Co., Inc., 47 W. 34th St.
Indian Refining Co., 17 Battery Pl.
Industrial Filtration Corp., 115 Broadway
Ingersoll-Rand Co., 11 Broadway
International Filtration Corp., 115 Broadway
International Leather & Belting Corporation, 511 Fifth Ave.
International Oxygen Co., 115 Broadway
International Process Co., 5 Beekman St.
International Rubber Co., 225 5th Ave.
Isaacs & Co., A., 54 Beekman St.
Jacoby, H. E., 95 Liberty St.
Jenkins Bros., 80 White St.
Johns-Manville Co., Madison Ave. and 41st St.
Jordan, William E., 11 Cliff St.
Kahn, Jacques, 533 W. 37th St.
Kalbperry Corp., 31 Union Square
K.-B. Pulverizer Co., 86 Worth St.
Kellogg Co., The M. W., 90 West St.
Kennedy-Stroh Corp., 120 Liberty St.
K-G Welding & Cutting Co., 556 W. 34th St.
Kidder Mfg. Co., Jerome, 820 Broadway
Kieley & Mueller, Inc., 34 W. 13th St.
Kiggins & Tooker Co., 35 Park Pl.
King Optical Co., 14 Maiden Lane
Knapp & Baxter, Inc., 30 Church St.
Knapp Mfg. Co., 48 Warren Ave.
*Kny-Scherer & Co., 404 W. 27th St.
Kohlbusch Herman, 170 Broadway
Koller & Smith, Inc., 159 Leonard St.
Lalance & Grosjean Mfg. Co., 299 Broadway
Lamb, Finlay & Co., 258 Church St.

Robinson Clay Products Co., of New York, Fuller Bldg.
Roessler & Hasslacher Chemical Co., 100 William St.
Roller-Smith Co., 233 Broadway
Rogers Wire Works, Inc., 291 Broadway
Roos Son, August, 429 E. 91st St.
Rothschild, Meyers & Co., 30 Irving Pl.
Ruggles-Coles Engineering Co., 50 Church St.
Rutter, Arthur T., 256 Broadway
St. Lawrence Talc Co., 7 E. 42d St.
Sanborn Evaporator Co., 50 Broad St.
Sand Mixing Machine Co . 52 Vanderbilt Ave.
Sarco Co., Inc., Woolworth Bldg.
Scandinavia Belting Co., 106-108 Reade St.
Schaaf-Regelman, E., 21 State St.
*Scheel, Wm. H., 159 Maiden Lane
Scheidig & Co., John, 32 Maiden Lane
Schieffelin & Co., 170 William St.
Schieren Co., Chas. A., Schieren Bldg
Schuchardt & Schutte, 90 West St.
Schwartz Belting Co., 76 Murray St.
*Schwenker, Inc., W. M., 340-144 E. 92d St.
Scientific Equipment Co., 70 5th Ave.
*Scientific Utilities Co., Inc., 84 E. 10th St.
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Selas Co., 521 W. 23d St.
Shore Instrument & Mfg. Co., 557 W. 22d St.
Sidio Co. of America, Inc., The, 37 Murray St.
Simmons Co., John, 110 Center St.
Sittig, J. W., 5 Beekman St.
Slocum, Avram & Slocum Lab., Inc.,
Smidth & Co., F. L., 50 Church St.
Smith-Serrall Co., Inc., Cedar and West Sts.
Smith & Co., Alfred H., 35 W. 33d St.
Soltmann, E. G., 134 W. 29th St.
Sonneborn Sons, Inc., L., 262 Pearl St.
Spencer Optical Co., 7 Maiden Lane
Sprague Electric Works, 527 W. 34th St.
Standard Oil Co., 26 Broadway
Standard Scientific Co., 147 Waverly Pl.
Standard Steam Specialty Co., 542 W. Broadway
*Standard Tank Co., 15 Park Row
Stanley, W. W., 50 Church St.
Star Expansion Bolt Co., 147-149 Cedar St.
Stevens, Aylsworth Co., Inc., 253 Broadway
Stevens Bros., 149 Broadway
Stitzel & Buecher, 155 W. 29th St.
Stokes & Co., Wm. A.
Strauss & Co., Adolph, 678 Broadway
Susfield, Lorsch & Co., 90 Maiden Lane
Swedish Iron & Steel Corp., 12 Platt St.
Talc Products Co., 11 Pine St.
Ten Broeck & Hubber, Inc., 214 E. 23d St.
Texas Co., 17 Battery Pl.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Tirrill Gas Machine Lighting Co., 108 Park Ave.
Toch Bros., 320 5th Ave.
Tolhurst Machine Works, 111 Broadway
Torsion Balance Co., 92 Reade St.
Treadwell Co., M. H., 140 Cedar St.
Troegerlith Tile Co., 103 Park Ave.
Trageser Steam Copper Works, Jno., 447 W. 26th St.
Thurnauer & Bro., G. M., 83 Worth St.
Traun Rubber Co., 335 Broadway
Turl Iron & Car Co., Inc., 50 Broad St.
Turl's Sons, Jno., 55 Liberty St.
*Turner, Halsey Co., 62 Leonard St.
Uehling Instrument Co., 71 Broadway
United Filters Corporation, 65 Broadway
United Lined Tube & Valve Co., 111 Broadway
U. S. Bottle Machinery Co., 90 W. Broadway
United Brush Mfg. Co., 203 Lafayette St.
U. S. & Cuban Allied Works Eng. Corporation, 50 Broad St.
U. S. Gauge Co., 67 Wall St.
U. S. Indestructible Gasket Co., 50 Church St.
U. S. Mineral Wood Co., 281 Madison Ave.
U. S. Rubber Co.
U. S. Tire Co., Broadway and 58th St.
Van Emden & Co., H., 145 W. 45th St.
Van Wagoners-Linn Construction Co., 1133 Broadway
Vulcanized Rubber Co., The, 251 4th Ave.
Waddell & Co., R. J., 55 Beekman St.
Wagner Bros. Co., 45 John St.
Wagner Glass Works, 965 E. 132d St.
Waite & Bartlett Mfg. Co., 252 W. 29th St.
Warner Chemical Co., 52 Vanderbilt Ave.
Washburn & Granger, 50 Church St.
Waterbury Co., 63 Park Row
Watters Laboratories, Cons., 55 5th Ave.

Weinhagen, H., 159 Leonard St.
Welding Supply Co., Inc., 132 Nassau St.
Wellman-Seaver-Morgan Co., 50 Church St.
West Disinfecting Co., 9 E. 59th St.
Western Electric Co., 195 Broadway
Westinghouse, Church, Kerr & Co., 37 Wall St.
Wetmore Co., S. H., 242 Pearl St.
Wheeler-McDowell Elevator Co., 417 Canal St.
White, Fred C., 241 Water St.
Whitney Glass Works, 220 Broadway
Wiebusch & Hilger, 106 Lafayette St.
Wildman-Treherne Co., 85 Franklin St.
Wilfert Co., John, 259 Broadway
Wilkinson Bros. & Co., 419 Broome St.
Williams-Electro-Medical Battery Co., 82 W. Broadway
Williams, Roger, 25 W. 42d St.
Williamsburg Cork Works, 50 Church St.
Willmarth Show Case Co.
Wilson-Maeulen Co., 781 E. 142d St.
Wing Mfg. Co., L. J., 352 W. 13th St.
Wolf & Co., Chas. A., 50 Park Pl.
Worthington Pump & Machinery Corp., 115 Broadway
Yale & Towne Mfg. Co., 9 E. 40th St.
Young Co., Richard, 36 Spruce St.
Zaubitz, August, 95-197 Cliff St.

N. Y., Niagara Falls
Acheson Graphite Co.
Carborundum Co.
Dobbie Foundry & Machinery Co.
General Abrasive Co.
International Acheson Graphite Co.
International Cooperage Co., Erie Ave. and 9th St.
Star Electrode Works of National Carbon Co., Inc.
Titanium Alloy Mfg. Co.
Titanium Bronze Co., The
U. S. Light & Heat Corp.

N. Y., New Rochelle
Voland & Sons

N. Y., North Tonawanda
American District Steam Co.
Lawson, Crowell & Co.

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
Van Atta & Co., Inc., E. B.

N. Y., Oriskany
Waterbury & Sons Co., H.

N. Y., Oswego
Kingsford Foundry & Machine Works

N. Y., Peekskill
Naylor Bros.

N. Y., Poughkeepsie
Lane Bros. & Co.
Trussell Mfg. Co

N. Y., Rochester
American Woodworking Machine Co.
Auburn Ball Bearing Co., 22 Elizabeth St.
Bausch & Lomb Optical Co., St. Paul St.
Boutell Mfg. Co.
*Castle Co., Wilmot, 800 St. Paul S
Cross Bros. & Co., 112-114 Mill St.
Eastman Kodak Co., 243 State St.
General Filtration Co., Inc., Cutler Bldg.
Gleason Works, 1019 University Ave.
Knowlton Co., M. D.
Pfaudler Co.
Rochester Spray Pump Co., 179 Broa way
Stromberg-Carlson-Telephone Mfg Co.
Strong & Hery Co.
Taylor Instrument Cos., 95 Ames St.
Will Corporation
Wilmot Castle Co., 800 St. Paul St.
Wood Mosaic Co.
Yawman & Erbe Mfg. Co.

N. Y., Rockville Centre, Long Island
Nassau Valve & Pump Co., Inc.

N. Y., Rome
Betson Plastic Fire Brick Co.
Rome Brass & Copper Co.
Rome Hollow Wire & Tube Co.

N. Y., Schenectady
General Electric Co.

N. Y., Seneca Falls
Goulds Mfg Co.

N. Y., Syracuse
Boomer & Boschert Press Co.
Booth Apparatus Co., Warren St.
Continental Can Co.
Direct Separator Co.
Dunning, W. D., 340 W. Water St.
Dunning & Boschert Co.
Empire Metal Co.
Engle Mfg. Co.
Halcomb Steel Co.
Houser Elevator Co., 314 E. Water St.
Merrell-Soule Co.
Pneumelectric Machine Co.
Semet-Solvay Co.
Solvay Process Co.
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Syracuse Twist Drill Co.

N. Y., Ticonderoga
Ticonderoga Pulp & Paper Co.

N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.

N. Y., Troy
Gurley, W. & L. E.
Hanna Mfg. Co.
McLeod & Henry Co.
Monarch Steam Blower Co.

Ross Valve Mfg. Co.
Tolhurst Machine Works
Troy Stamping Works

N. Y., Utica
Bossert Corp., The
Divine Bros. Co.
Munson Mill Machinery Co., Inc., 405 Broadway

N. Y., Watertown
Bagley & Sewall Co.
Stebbins Engineering & Mfg. Co.
Watertown Specialty Co., 112 E. Moulton St.
Watertown Thermometer Co.

N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.

N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.

N. Y., Woodhaven
Chemical Equipment Co.

N. C., Charlotte
Chemical Construction Co., Trust Bldg.
Cramer, Stuart C.

N. C., Hickory
Latta-Martin Pump Co.

Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.
American Sewer Pipe Co.
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Burt Mfg. Co.
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Miller Rubber Co.
Robinson Clay Product Co.
Star Rubber Co.
United States Stoneware Co.
Weeks, A. J.
Whitman & Barnes Co.
Williams Foundry & Machine Co.

Ohio, Alliance
Alliance Machine Co.
Morgan Engineering Co.
Reeves Bros. Co., 340 Rush St.

Ohio, Ashland
Faultless Rubber Co.
Myers & Bro., F. E., 900 Orange St.

Ohio, Bryan
Bryan Novelty Mfg. Co.

Ohio, Bucyrus
American Clay Machinery Co.

Ohio, Cambridge
Cambridge Glass Co.
Guernesey Earthenware Co.

Ohio, Canton
Berger Mfg. Co.
Best Light Co.
Bonnot Co.
Canton Art Metal Co.
Sun Vapor & Gas Street Light Co.
Timkon Roller Bearing Co.
Whiteman Mfg. Co.

Ohio, Celina
Celina Specialty Co.

Ohio, Cincinnati
Alvey-Ferguson Co.
American Laundry Machinery Co.
American Copper & Brass Works, 612 E. Front St.
American Tool Works
American Valve & Meter Co., 2833 Springfield Ave.
Bradford Belting Co., 201 Walnut St.
Berghausen Chem. Co., The E., 307 E. 2d St.
Blymer Iron Works Co., Spring Grove Ave. and Terrace St.
Bromwell Brush & Wire Goods Co., 612 W. 6th St.
Burr Oak Belting Co., 521 Livingston St.
Cincinnati Cooperage Co., W. 6th St.
Cincinnati Gasket & Packing Co., 1546-48 Elm St.
Cincinnati Planer Co., Oakley
Cincinnati Rubber Co., Franklin Ave., Norwood
Cleveland Fabric Belting Co., 1473 W. 110th St.
Cookson Steam Specialty Co., 60-62 Central Ave.
Compressed Wood Preserving Co., 4600 Spring Grove Ave.
Crane & Breed Mfg. Co., 1227 W. 8th St.
Creaghead Engineering Co., 340 Main St.
Day Co., J. H., 1144 Harrison Ave.
Deckebach Sons Co., F. C., 129 W. Court St.
Eagle Counter & Leather Co., 414-416 8th St.
Edwards Mfg. Co., 306-336 Eggleston Ave.
Erhart, Chris., 1237-41 Sixth Ave., W.
Fosdick Machine Tool Co., Blue Rock & Apple St.
Globe-Wernicke Co., 130 E. 4th St.
Hauser-Stander Tank Co., 2118 Division St.
Hawson-Stander Tank Co.
Hisey-Wolf Machine Co., Colerain & Marshall Sts.
Honhorst Co., Jos.
Houston-Stanwood & Gamble Co., The
Interstate Sanitation Co., 135 E. 3d St.
Jantz & Leist Electric Co.
Kiechler Mfg. Co., Wade & Denman Sts.
King Machine Tool Co.
King Powder Co., 1st National Bank Bldg.
Kirk & Blum, York and Western Sts.

Kreimer & Bro. Co., 9th and Carr Sts.
Lunkenheimer Co., Beekman and Waverly Sts.
Lynn Superior Co., 3250 Spring Grove Ave.
Macleod Co., 2232 Bogen St.
Mitchell Co., P. R., 3859 Clifton Ave.
Neil & Smith Electric Tool Co., 120-122 E. 6th St.
Obermayer Co., S., 647 Evans St.
Powell Co., The Wm., 2521 Spring Grove Ave.
Queen City Exhaust Blow Pipe Co., 423 York St.
Reedy Co., H. J.
Standard Electric Tool Co.
Taylor Sons Co., Chas.
Triumph Ice Machine Co.
Tudor Boiler Mfg. Co., 715 E. 3d St.
Van Dusen Co., E. W., 1428 E. 2d St.
Vulcan Copper Works Co., 122 Sycamore St.
Warner Elevator Mfg. Co.
Williams Valve Co.
Wocher & Son, Max, Cor. 9th and 6th Aves.

Ohio, Cleveland

Aluminum Castings Co., 6205 Carnegie Ave.
American Shipbuilding Co., Washington and Elm Aves.
Anderson Co., V. D., W. 96th St.
Atlas Car & Mfg. Co., Ivanhoe Road
Austin Powder Co., Rockefeller Bldg.
Bartlett & Snow Co., C. O., French and Winter Sts.
Bishop, Babcock, Becker Co., The, 49th and Hamilton Sts.
Bullock Mfg. Co., T. H., 1577 Columbus Road
Brown Hoisting Machinery Co., 4403 St. Clair St.
Buckeye Brass & Mfg. Co., 1807 Columbus Road
Case Hardening Service Co.
Central Brass Mfg. Co., 6203 Cedar Ave.
Cleveland Blow Pipe & Mfg. Co.
Cleveland Brass Mfg. Co., 4606-4626 Hamilton Ave., N. E.
Cleveland Machine Tool Works, 3213-3225 Superior Ave.
Cleveland Rubber Co., Lisbon Road
Cleveland Steel Barrel Co.
Cleveland Store Fixture Co.
Cleveland Twist Drill Co.
Cleveland Wire Spring Co.
Cleveland Pneumatic Tool Co., 6410 Hawthorne Ave.
Consumers Rubber Co., 829 Superior Ave.
Cummer & Son Co., F. D., 413 The Arcade
Dangler Stove Co., 5017 Perkins Ave.
Dyer Co., 2033 Euclid Ave.
Electric Controller & Mfg. Co., 2700 E. 79th St.
Elwell Parker Electric Co.
Electric Products Co., 10514 Dupont Ave., N. E.
Euclid Glass Division National Lamp Works, of General Electric Co.
Eureka Machine Co., 2610 Vega Ave.
Fanner Mfg. Co., W., 25th West of Brooklyn Bridge
Gas Machinery Co., 1900 Euclid Ave.
Globe Machine & Stamping Co.
Harshaw Fuller & Goodwin Co., Electric Bldg.
Hill Clutch Co.
Kilby Mfg. Co., 4623 Lakeside Ave.
Lakewood Engineering Co., Berea Rd.
Lennox Chemical Co., The, 1201 E. 55th St.
Lincoln Electric Co.
Lindsay Wire Weaving Co., 14025 Aspinwall Ave.
Loew Mfg. Co., 9001 Madison Ave., N. W.
Lucas Machine Tool Co., E., E. 99th St. and N. Y. C. R. R.
Mechanical Rubber Co.
Meriam Co., 1514 Prospect Ave., S. E.
Monarch Brass Co., 4607 Payne Ave.
National Carbon Co., Madison and Highland Aves.
National Refining Co., Rose Bldg.
National Smelting Co., 6800 Grant Ave
Ohio Blower Co.
Ohio Chemical & Mfg. Co., 1199 Marquette at L. S. & M. S. Railway
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.
Phoenix Ice Machine Co., 2711 Church Ave.
Russ Co., 5700 Walworth Ave.
Sawyer Belting Co.
Standard Sand & Machine Co.
Standard Tool Co.
Standard Welding Co., W. 73d St. and N. Y. C. Tracks
Strong, Carlisle & Hammond Co., 336 Frankfort St., N. W.
Steel Improvement & Forge Co., 5000 Winsor Ave.
Steel Products Co.
Stowe Fuller Co.
Strong, Carlisle & Hammond Co.
Tyler Co., W. S., Superior Ave. and 36th St.
Union Engineering Co., 1616 Columbus Road
Union Paper & Twine Co., 127 St. Clair Ave., N. W.
United States Air Compressor Co., 6526 Carnegie Ave.

Van Dorn Electric Tool Co.
Van Dorn Iron Works Co.
Vitreous Enameling Co., Grant Ave. near 71st St., S. E.
Warner & Swasey Co.
Wellman-Seaver-Morgan Co., 7000 Central Ave.

Ohio, Columbiana
Columbiana Boiler Co.

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Kilbourne & Jacobs Mfg. Co.
Ralston Steel Car Co.
Rudolph, Philip J., 190 W. 1st Ave.

Ohio, Conneaut
Conneaut Can Co.

Ohio, Dayton
Barney & Smith Car Co.
Buckeye Boiler Co., 1617 McLain St.
Buckeye Iron & Brass Works
Electro Chemical Co., 111 W. Court St.
International Clay Machinery Co.
Platt Iron Works Co.
Reynolds & Reynolds Co., The
Smith Gas Engineering Co.

Ohio, Defiance
American Steel Package Co.
Defiance Box & Coop Co.

Ohio, Delphus
Delphus Co.

Ohio, East Akron
Knight, Maurice A.

Ohio, East Liverpool
Patterson Foundry & Machine Co.

Ohio, Elyria
Elyria Enameled Products Co.

Ohio, Fostoria
Fostoria Glass Specialty Co.

Ohio, Fremont
Christy Knife Co.
Simple Account Sales Book Co.

Ohio, Hamilton
Black-Clawson Co.
Hamilton Copper & Brass Works
Long & Alstatter Co.

Ohio, Kent
Falls Rivet Co.

Ohio, Leetonia
Leetonia Boiler Co., Kunkel Bldg.

Ohio, Lexington
Smith Gas Engineering Co.

Ohio, Lockland
Carey Mfg. Co., Philip
Fox Paper Co.
Gedge Gray Co.

Ohio, Logan
Logan Pottery Co.

Ohio, Mansfield
Phoenix Electric Co.

Ohio, Marion
Marion Steam Shovel Co.
Osgood Co.

Ohio, Middletown
American Rolling Mill Co.
Wrenn Paper Co.

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co., The

Ohio, Mt. Vernon
Chapman Engineering Co.
Hope Engineering & Supply Co.
Hydraulic Press Mfg. Co.

Ohio, Nelsonville
Nelsonville Foundry & Machine Co.

Ohio, Newark
Heisey & Co., Inc., A. H.

Ohio, New Lexington
Star Mfg. Co.

Ohio, New London
Arnold-Creager Co.

Ohio, Niles
Standard Boiler & Plate Iron Co.
Stevens Metal Products Co.

Ohio, Oak Hill
Pyro Clay Products Co.

Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Ohio, Plymouth
Fate Co., J. D.

Ohio, Salem
Deming Co.

Ohio, Sandusky
American Crayon Co.
Sandusky Foundry & Machine Co.

Ohio, Sebring
Limoges China Co.

Ohio, Shelby
Ohio Seamless Tube Co.

Ohio, Sidney
Sidney Elevator Mfg. Co.

Ohio, Springfield
Bauer Bros. Co.
Lagonda Mfg. Co., 1809 Sheridan Ave.
Robbins & Myers Co.
Ridgely Trimmer Co.
Safety Emery Wheel Co.

Ohio, Steubenville
Gill Bros. Co.

Ohio, Tiffin
Webster Mfg. Co.

Ohio, Toledo
Beckman Co., L., 318 Adams St.
Gendron Wheel Co.
Gogel Mfg. Co.
Haughton Elevator & Machine Co.
Kent-Owens Machine Co.
Libbey Glass Co.
Ophthalmoscope Co.
Owens Bottle Machine Co.
Toledo Drill & Tool Co.
Toledo Scale Co.
Toledo Steel Barrel Co.

Ohio, Urbana
Desmond-Stephen Mfg. Co.
Ohio, Wadsworth
Ohio Injector Co.
Ohio, Warren
Warren Tank & Boiler Co.
Ohio, Youngstown
General Fireproofing Co.
Republic Iron & Steel Co.
Republic Rubber Co.
Tod Co., Wm.
Wagenhorst & Co., J. H., 704 Dollar Bank Bldg.
Youngstown Engineering Co.
Youngstown Pressed Steel Co.
Youngstown Sheet & Tube Co.
Ohio, Zanesville
Ohio Pottery Co.
Oregon, Portland
Harris Ice Machine Works, Inc., 174 E. Water St.
Leupold & Voelpel, 501 Phoenix Bldg.
National Tank & Pipe Co., 275 Oak St.
North West Blow Pipe Co.
Woodward, Clark & Co.
Pa., Allentown
Allentown Flint Bottle Co.
Garnet Co., Geo. H.
Traylor Engineering & Mfg. Co.
Pa., Ambler
Keasby & Mattison
Pa., Bangor
Bangor National Slate Co.
Bangor Slate Mfg. & Supply Co.
Flory Mfg. Co., S.
Hammann Slate Co.
Pa., Beaver Falls
Keystone Driller Co.
Union Drawn Steel Co.
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Berwyn
American Bronze Co.
Pa., Braddock
Braddock Steel Co.
Consolidated Expended Metal Companies
Pa., Braeburn
Braeburn Steel Co.
Pa., Bridgeport
Diamond State Fibre Co.
Harvey Hubbell, Inc., State St. and Bostwick Ave.
Summerill Tubing Co.
Pa., Brockenridge
Allegheny Steel Co.
Pa., Canonsburg
Standard Tin Plate Co.
Pa., Carbondale
American Welding Co.
*Carbondale Calcium Co.
Carbondale Instrument Co.
Carbondale Machine Co.
Cross Engineering Co.
Griebel Instrument Co.
Hendrick Mfg. Co., 39-75 Dundaff St.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works
Pa., Chester
Chester Steel Castings Co.
Wetherill & Co., Inc., Robert
Wirz, Inc., A. H.
Pa., Coatesville
Coatesville Boiler Works
Lukens Iron & Steel Co.
Ridgway & Son Co., Craig
Pa., Connellsville
Riverside Metal Refining Co.
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Corry
Trill Indicator Co.
Pa., Curwensville
Crescent Refactories Co.
Pa., Darby
Roberts Filter Mfg. Co.
Pa., Du Bois
Vulcan Soot Cleaner Co.
Pa., Easton
American Slate Co.
Easton Cart Construction Co., 200 4th St.
Pluto Powder Co.
Pa., East Bangor
East Bangor Consolidated Slate Co.
Pa., East Downingtown
Downingtown Mfg. Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Ellwood City
Mathews Gravity Carrier Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Keystone National Powder Co.
Pa., Erie
Advance Mfg. Co.
American Sterilizer Co.
Continental Rubber Works
Erie-Buffalo Tube Co., 1227 W. 18th St.
Erie Car Works, 17th and Raspberry Sts.
Erie City Mfg. Co.
Erie Foundry Co.
Erie Iron Works
Exhibition Show Case Co.
Hays Mfg. Co.
Jarecki Mfg. Co.
Watson Co., H. F.
Williams Co., G. H.
Pa., Franklin
Colburn Machine Tool Co.
Franklin Mfg. Co.
Pa., Fullerton
Fuller-Lehigh Co.

Pa., Greensburg
Kelly & Jones Co.
Memphis Steel Construction Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works
Pa., Harrisburg
Jackson Mfg. Co.
Pa., Hollidaysburg
McLanahan-Stone Machine Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Lawson Mfg. Co.
Pa., Jeannette
Jeannette Glass Co.
Pennsylvania Rubber Co.
Pa., Jenkintown
Hodges Water Still Co., Inc.
Pa., Johnstown
Lorain Steel Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Lancaster
Mircs Fuel Oil Equipment Co.
Pa., Macungie
Macungie Brass & Mfg. Co.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Manheim
Hershey Machine & Foundry Co.
Pa., Mechanicsburg
The Scientific Instrument & Electrical Machine Co.
Pa., Midland
Treadwell Construction Co.
Pa., Milton
Milton Mfg. Co.
Pa., Monaca
Pittsburgh Tool Steel Wire Co.
Pa., Muncy
Sprout, Waldron & Co.
Pa., New Brighton
Sherwood Bros. Co.
Standard Specialty & Tube Co.
Pa., New Castle
Penn Engineering Works
Pa., Oil City
Pennsylvania Cooperage Co.
Reid Gas Engine Co., Joseph
Pa., Philadelphia
Abrasive Co., Bridesburg
Albro-Clem Elevator Co., 7th St. and Glenwood Ave.
Ajax Metal Co., 48 Richmond St.
Alexander Bros., 414 N. 3d St.
American Insulating Machinery Co., Inc., Fairhill and Huntingdon Sts.
American Manganese Bronze Co., Rhawn and Hegeman Sts.
American Pulley Co., 4200 Wissahickon Ave.
American Water Softener Co., 10th and Chestnut Sts.
Baldwin Locomotive Works
Baeuerle & Morris, 932 N. Front St.
Barber Asphalt Paving Co., Land Title Bldg.
Beaumont Co., R. H., Drexel Bldg.
Belfield Co., H., 435 N. Broad St.
Berger Bros. Co., 231 Arch St.
Bernstein Mfg. Co., 3d and Allegheny Ave.
*Biddle, James G., 1211-13 Arch St.
Blair, Campbell & McLean. Inc., Colonial Trust Bldg.
*Boekel & Co., Wm., 516-518 Vine St.
Bond Co., Charles
Braemer Air Conditioning Co., Lafayette Bldg.
Brauer & Son, J., 129 Arch St.
Brill Co., J. G., 62d St. and Woodland Ave.
Brown Instrument Co., Wayne and Roberts Aves.
*Burk & Co., Wm. B., 534 Arch St.
Butterworth & Sons Co., H. W., 2415 E. York St.
Caloris Co., 2110 Allegheny Ave.
Cambria Steel Co., Widener Bldg.
Challenge Machine Co., Inc., 5118 Springfield Ave.
Chambers Bros. Co., 52d and Media Sts.
C. J. Mfg. Co., 3421 N. 5th St.
Clarke Can Co., 12th and Fitzwater Sts.
Covel Belting Co.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
Cresson-Morris Co., 18th and Allegheny Ave.
Darby & Sons Co., Inc., Edward, 233-235 Arch St.
*Dean, J. Atlee, 5420 Baltimore Ave.
Dienelt & Eisenhardt, Inc., 1304 N. Howard St.
D'Olier Centrifugal Pump & Machine Co., Morris Bldg.
Drueding Bros. Co., 5th and Master Sts.
Duemier, G. Frank, 837 Sanger St.
Electric Service Supplies Co., 17th and Cambria St.
Electric Storage Battery Co., Allegheny Ave. and 19th St.
Electric Tachometer Corp., Perry Bldg.
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Endura Mfg. Co., 63d St. and Eastwick Ave.
Enterprise Mfg. Co.
Espen-Lucas Machine Works, Front St. and Girard Ave.
Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
Fairmount Glass Works, 828 N. 23d St.

Faltermayer Bros., 2741 Germantown Ave.
Feidt & Co., Geo. D., 230 S. 7th St.
Fletcher Works
Foote Mineral Co., Inc., 109 N. 19th St.
Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
French & Co., Sam'l H., 4th and Callowhill Sts.
Gefeover & Son, Inc., G.
General Scientific Equipment Co., 2000 Market St.
Gillinder & Sons, Tacony and Devereaux Sts.
Globe Automatic Sprinkler Co., 2035 Washington Ave.
Green & Sons, Robert M., 1413 Vine St.
Greene Paper Co., 5014 Market St.
Hagstoz & Son, T. B., 709 Sansom St.
Haines, Jones & Cadbury Co., 1136 Ridge St.
Hand & Sons Co., John E., 224 Walnut St.
Harrison Safety Boiler Works, 17th and Allegheny Sts.
Harrison Works, 35th and Grays Ferry Road
Haslett Spiral Chute Co., 1937 W. Tioga St.
Hero Mfg. Co.,
Hess-Bright Mfg. Co., Front St.
Himmelein & Bailey, 248 Chestnut St.
Hocker Co., G. R., 1840 S. Camac St.
Hodges Water Still Co., Pennsylvania Bldg.
Houghton & Co., 240 W. Somerset St.
Hydro Mfg. Co., 320 Bullitt Bldg.
Ivins Tube Works, Ellwood, Oak Lane Station
Janney, Steinmetz Co.
Jessup & Moore Paper Co., 28 S. 6th St.
Kestner Evaporator Co., 18th St. and Allegheny Ave.
Keystone Emery Mills, 4329 Paul St.
Klemm & Co., 132 N. 5th St.
Kutztown Foundry & Machine Co., Morris Bldg.
Large-Dail Mfg. Co., 114 N. 13th St.
Lavino & Co., E. J., Bullitt Bldg.
Leeds & Northrup Co., 4901 Stenton Ave.
Levick & Sons Co., 106 S. 13th St.
Logan Iron & Steel Co., Morris Bldg.
Lonergan Co., J. E., 211 Race St.
Loomis-Manning Filter Mfg. Co., 1421-1455 S. 37th St.
Lupton & Sons Co., David
Main Belting Co.
Maris & Co., J. M.
Merchant & Evans Co., 2019-2035 Washington Ave.
Messer Mfg. Co., 121 N. 7th St.
Monarch Mfg. Works, 3129 Emery St.
Moore & White Co.,
North American Smelting Co., 9th and Thompson Sts.
Oat & Sons, Jos., 230 Quarry St.
Oil & Waste Saving Machine Co., 1509 Real Estate Trust Bldg.
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Ott, Geo. F., 209 Buttonwood St.
Otto Engine Mfg. Co., S. 33d and Walnut Sts.
Pancoast Co., Henry B., 243-245 S. 3d St.
Parker Co., F. T., 232 Chestnut St.
Paxson Co., J. W., 1021 N. Delaware Ave.
Pennsylvania Crusher Co., Stephen Girard Bldg.
Pennsylvania Flexible Metallic Tubing Co., N. E. Cor. Broad and Race Sts.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pennsylvania Steel Co.
Pennsylvania Wire Glass Co., 915 Penn Bldg.
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Philadelphia Pipe Bending Co.
Philadelphia Roll & Machine Co., S. 23d and Washington Ave.
Philadelphia Textile Machinery Co., Sixth St. and Tabor Road
Philadelphia Thermometer Co., 9th and Arch Sts.
Philadelphia Tramrail Co., Front and Tusculum Sts.
Phoenix Iron Co.
Platinum Metals Co.
Porter & Co., C. B., 128 N. 2d St.
Precision Thermometer & Instrument Co., 1434 Brandywine St.
Quaker City Rubber Co., 629 Market St.
Queen-Gray Co., Inc., 618 Chestnut St.
Quimby Engineering Co., 450 N. 10th St.
Remmers & Sons, B., Bourse Bldg.
Remmey Son Co., Richard C., Hedley and Delaware River Bldg.
Rhoades & Sons, J. E., 12 N. 3d St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
Roentgen Mfg. Co., 1210 Race St.
Ross-Tacony Crucible Co., Robbins and Mulner Sts.
Rue Mfg. Co., 228 Cherry St.

Savill's Sons, Thos., 1310 Wallace St.
Schaum & Uhlriger, Inc., Cor. Glenwood Ave. and 2d St.
Schautte & Koerting Co., 12th and Thompson Sts.
Seidel Inc., R. B., 1322 Callowhill St.
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Sharpless Specialty Co.
Smith, Kline & French Co.
Southwark Foundry & Machine Co.
Sowers Mfg. Co.
Specialty Engineering Co., Allegheny and Trenton Aves.
Standard Roller Bearing Co., 50th St. and Lancaster Ave.
Steele Glass Co., 622 Locust St.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Supplee-Biddle Hardware Co., 507 Commerce St.
Taylor, Inc., Robert J., 19th and Callowhill Sts.
*Thomas Co., Arthur H., 238 W. Washington Square
Thomson-Levering Co., 323 Arch St.
Thwing Instrument Co., 3339 Lancaster Ave.
Tilgham-Brooksbank Sand Blast Co.
Troemmer, Henry, 911 Arch St.
Uniflow Boiler Co., Inc., 2 S. 15th St.
United Gas Improvement Co., 1514 S. Broad St.
Watts Sons, John M., 54 N. 2d St.
Wheeler Co., C. H.
Wheeler Mfg. Co., C. H.
Whitall-Tatum Co., 410 Race St.
Williams-Brown & Earle, 918 Chestnut St.
Wirt Electric Specialty Co., Armat and Lena Sts.
Wood & Co., R. D., 400 Chestnut St.
Woolford Wood Tank Mfg. Co., 1429 Chestnut St.
Wyeth & Bro., J., Inc., 11th and Washington Ave.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.
American Sheet & Tin Plate Co., Frick Bldg.
Armstrong Cork Co.
Armstrong Cork & Insulation Co., 122 24th St.
Asbestos Protected Metal Co., 1st National Bank Bldg.
Bachrach Industrial Instrument Co., 422 1st Ave.
Bailey Reflector Co., 514 1st Ave.
Basic Products Co., 2119 Oliver Bldg.
Bonar & Co., James, 502 Park Bldg.
Cadman Mfg. Co., A. W., 2814-2816 Smallman St.
Carbo-Hydrogen Co.
Carbon Steel Co.
Carnegie Steel Co.
Clark Car Co., Oliver Bldg.
Coal & Coke By-Products Co., 421 Wood St.
*Colonial Supply Co., 217 Water St.
Crucible Steel Co. of America, 30th and Smallman Sts.
Damascus Bronze Co., 928 South St.
Doubleday-Hill Electric Co., 721 Liberty Ave.
Draeger Oxygen Apparatus Co., 422 1st Ave.
Duquesne Steel Co.
Edgewater Steel Co.
Eichleay Co., John Jr., S. 20th and Wharton Ave.
Elliott Co., 6915 Susquehanna St.
Elliott Co., B. K., 130 6th St.
Epping-Carpenter Pump Co., 43d St. and Allegheny R. R.
Garrison Foundry Co., 901 Bingham St.
Gem Mfg. Co., 1229-1243 Goebel St., N. S.
Gibbs Instrument Co., Highland Bldg.
Gulf Refining Co., Frick Bldg.
Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.
Hagan Co., George J., 401 Peoples Bank Bldg.
Hamilton, J. F. & A.
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Homestead Valve Mfg. Co., P. O. Box 1754
Hunter Saw & Machine Co., 57th and Butler Sts.
Jones & Laughlin Steel Co.
Keystone Bronze Co., 39th and A. V. R. R.
Keystone Elec. Telephone Co., 614 Smithfield Ave.
Koppers Co., H., Union Ave.
Lawrenceville Bronze Co., 3036 Penn Ave.
Liberty Mfg. Co., 6907 Susquehanna St.
Macbeth-Evans Glass Co.
Mackintosh, Hemphill & Co., 12th and Etna Sts.
Marshall Foundry Co., 28th and Railroad
McCullough-Dalzell Crucible Co.
McLean Co.
Monroe & Sons Mfg. Corp., 23d and Smallman Sts.
National Fire Proofing Co., Fulton Bldg.
National Tube Co., 1902 Frick Bldg.
Ohio Well Supply Co.

Oliver Iron & Steel Co., S. 10th and Muriel Ave.
Pittsburgh Can Co.
Pittsburgh Coal Washer Co., 812 Fulton Bldg.
Pittsburgh Crushed Steel Co., 61st St. and A. V. Ry.
Pittsburgh Filter Mfg. Co.
Pittsburgh Gage & Supply Co.
Pittsburgh Iron Works Co., 4700 2d St.
Pittsburgh Steel Co., Frick Bldg.
Pittsburgh Steel Products Co.
Pittsburgh Thermoline Co., S. 20th and Wharton Sts.
Pittsburgh Valve, Foundry & Const. Co.
Pressed Steel Car Co., Farmer's Bank Bldg.
Republic Chemical Co., Neville Island
Rosedale Foundry & Machine Co., Columbus and Preble Ave., North Side
Rudd Mfg. Co.
Ruemmeli Dawley Mfg. Co., 3911 Chouteau Ave.
Rust Engineering Co., Keenan Bldg.
Sauer Power Generating Co., 5115-5119 Rosetta St.
Scaife & Sons Co., Wm. B., 21 1st Ave.
Scientific Materials Co., 711-719 Forbes St.
Standard Sanitary Mfg. Co.
Standard Scale & Supply Co., 1631 Liberty Ave.
Sterritt-Thomas Foundry Co., 32d and Smallman Sts.
Summers Steel Car Co., Oliver Bldg.
Tate, Jones & Co., Inc., Empire Bldg.
Union Steel Castings Co.
United Engineering & Foundry Co., Farmer's Bank Bldg.
U. S. Glass Co., S., 9th and Bingham Aves.
U. S. Steel Corp.
Vanadium Metal Co., Vanadium Bldg.
Westinghouse Air Brake Co.
Williams & Co.

Pa., Pittston
Delahunty Dyeing Machine Co.

Pa., Pottstown
Glasgow Iron Co.
Wilbraham-Green Blower Co.

Pa., Pottsville
Eastern Steel Co.

Pa., Reading
Carpenter Steel Co.
Columbia Cutlery Co.
Hettinger, E. L., 2d and Washington Sts.
Reading Iron Co.
Reading Steel Foundry Co.
Textile Machine Works
Willson & Co., T. A.

Pa., Ridgway
Ridgway Dynamo & Engine Co.

Pa., Rochester
Fry Glass Co., H. C.
Pittsburgh Grinding Wheel Co.

Pa., Schuylkill Haven
Rowland, Samuel

Pa., Scottdale
Electric Water Sterilizer Co.

Pa., Scranton
Black Horn Sales Co.
Everhart Brass Works
McClave-Brooks Co.
Technical Supply Co.

Pa., Sharon
Pennsylvania Tank Car Co.
Petroleum Iron Works Co.
Pressed Steel Products Co.
Sharon Foundry Co.

Pa., Slatington
Genuine Washington Slate Co.
Monarch Black Board & Structural Slate Co.
Provident Slate Co.

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.

Pa., Tamaqua
Tamaqua Mfg. Co.

Pa., Titusville
Titusville Iron Co.

Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Pa., Warren
Hammond Iron Works
Struthers-Wells Co.
Warren City Tank & Boiler Works

Pa., Washington
Highland Glass Co.

Pa., Waynesboro
Frick Co., Inc.
Landis Tool Co.

Pa., West Chester
Sharples Separator Co.
Sharpless Specialty Co., The

Pa., Wilkes-Barre
Hazard Mfg. Co.
Vulcan Iron Works

Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.
Keeler Co., E., 238 West St.
Maryland Flint Co.
Valley Iron Works

Pa., York
Foreman Systems
Pullman Ventilator Corp.
Ruggles-Coles Engineering Co.
Steacy-Schmidt Mfg. Co.
York Electric & Machine Co., 30-34 N. Penn St.
York Mfg. Co.

R. I., Bristol
National India Rubber Co.
R. I., Providence
American Emery Wheel Co.
Brown & Sharp Mfg. Co.
Builders Iron Foundry
Clason Architectural Metal Works, Inc., 428 Kinsley St.
Davol Rubber Co.
D. & W. Fuse Co.
General Fire Extinguisher Co., 275 W. Exchange St.
Hill Mfg. Co., James
Household Cabinet Works
Ideal Ventilator Co., 99 Stewart St.
Narragansett Machine Co.
National Gas Furnace Co.
New England Butt Co.
New England Ventilating & Heating Co., 926 Manton Ave.
Salisbury Mfg. Co.
Textile Finishing Machinery Co., 81 Exchange Pl.
Tillotson Humidifier Co.
U. S. Gas Furnace Co.
Wall Co., A. T., 162 Clifford St.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan
S. C., Charleston
Valk & Murdoch Co.
Tenn., Chattanooga
American Lava Co.
Chattanooga Wheelbarrow Co.
Frictionless Metal Co.
Tenn., Jackson
Jackson Fire Brick Co.
Tenn., Knoxville
Oliver Mfg. Co., Wm. J.
Savage Co., W. J.
Tenn., Memphis
Memphis Blow Pipe Co.
Tenn., Nashville
Harris Municipal Garbage Incinerator & Steam Generator Co., 65 Life and Casualty Bldg.
Phillips & Butteroff Mfg. Co.
Tex., Dallas
Murray Co.
Tex., Houston
Shannon, G. S.
Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.
Keller Mfg. Co., G. P.
Kelly Filter Press Co.
Salt Lake Hardware Co.
United Filters Corp.
Utah Fire Clay Co.
Vt., Bellows Falls
Vermont Farm Machinery Co.
Vt., Burlington
Champlain Mfg. Co.
Vt., Montpelier
U. S. Clothes Pin Co.
Vt., Wells River
Adams Paper Co.
Va., Lynchburg
Lynchburg Foundry Co.
Va., Richmond
Albemarle Paper Mfg. Co.
Parker & Son Co., Joseph
Richmond Engineering Co., 12 S. 8th St.
Standard Paper Mfg. Co.
Tredagar Co.
Wash., Everett
Everett Pulp & Paper Co.
Wash., Seattle
Continental Pipe Mfg. Co.
Denny-Renton Clay & Coal Co.
Seattle-Astoria Iron Works, 601 Myrtle St.
Seattle Brass Co.
Seattle Car & Foundry Co., Alaska Bldg.
Wash., Spokane
Armstrong Machinery Co., 3201-3219 E. Riverside St.
*Fawcett Co., C. M.
Wash., Tacoma
Far West Clay Co., 224-228 Tacoma Bldg.
Williams, C. W.
W. Va., Fairmont
Fairmont Mining Machinery Co.
W. Va., Grafton
Hefner & Maysilles
W. Va., Morgantown
Union Stopper Co.
W. Va., Wheeling
Central Glass Co.
Williams' Improved Stretcher Co., 1202-04 Water St.
Wis., Appleton
Combined Locks Paper Co.
Valley Iron Works Co.
Wis., Ashland
Bretting Mfg. Co., C. G.
Wis., Cudahy
Power & Mining Machinery Co.
Wis., Grand Rapids
American Carbonic Machinery Co.
Wis., Jamesville
Franklin, Taylor Co.
Wis., Kwaunee
Kewaunee Mfg. Co.
Wis., Kohler
Kohler Co.
Wis., LaCrosse
Benton Electric Co.
Wis., Madison
Gisholt Machine Co.
Northern Water Softener Co.
Wis., Manitowoc
Manitowoc Aluminum Co.

Manitowoc Boiler Works
Manitowoc Engineering Works
Wis., Marinette
Marinette & Menominee Box Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
American Machinery & Construction Co.
Chain Belt Co., 734 Park St.
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.
Davis Mfg. Co., 57th Ave. and Mitchell St.
Dings Magnetic Separator Co., 333 South St.
Dravo Co., 1195 30th St.
Erwin Mfg. Co.
Geuder, Paeschke & Frey Co.
Industrial Controller Co., 900 Greenbush St.
Johnson Service Co., 153 Michigan Ave.
Kearney & Trecker Co.
Kerner Incinerator Co.
Kramer Oil Co., W. J.
Magnetic Mfg. Co., 764 Windlake Ave.
Mechanical Appliance Co.
Milwaukee Bag Co., 206 S. Water St.
Milwaukee Boiler Co., 220 Oregon St.
Milwaukee Concrete Mixer Co.
Milwaukee Locomotive Mfg. Co.
National Brake & Electric Co.
Norberg Mfg. Co.
Nortmann Duffke Fdy. Co., 1210 27th Ave.
Pawling & Harnischfeger Co.
Pressed Steel Tank Co.
Richardson-Phoenix Co., 126 Reservoir Ave.
Sommers & Sons Co., Galena and 31st Sts.
Twentieth Century Machinery Co., M. & M. Bank Bldg.
Vilter Mfg. Co., 824 Clinton St.
Voss Co., Herman, 603 E. Water St.
Wisconsin Bridge & Iron Co.
Wisconsin Foundry Co., 1138 32d St.
Wis., Oshkosh
Ransom Mfg. Co.
Wis., Racine
Phoenix Automatic Filter Co.
Wis., South Milwaukee
Bucyrus Co.
Wis., Superior
Superior Iron Works Co.
Wis., Two Rivers
Hamilton Mfg. Co.
Wis., Watertown
Dornfield Iron Works
Wis., Wausau
Wausau Abrasives Co.

V. INDUSTRIAL CHEMISTS AND CHEMICAL ENGINEERS

I. ANALYTICAL AND CONSULTING CHEMISTS

Ala., Birmingham
Hancock, David, 3d floor Potter Bldg. Fuels, metallurgy
Picard Laboratories, 1911 1st Ave. Fuels, cottonseed products, fertilizers, metallurgy
Pittsburgh Testing Laboratory, 216 Clark Bldg.

Ala., Montgomery
Battle Laboratory, 103 S. Court St.
Burke, J. D., 28 N. Court St.

Ariz., Tucson
Brinton, Paul H. M-P. Metallurgy

Ark., Fort Smith
Industrial Laboratories, Inc. Wood by-products; manganese (chloride, dioxide, sulphate)

Cal., Berkeley
Clark, Guy W., 1148 Sutter St. Meats, oils
Cruess, Wm. V., F. C. L. Bldg.
Cutter Laboratory, Inc., 6th St.

Cal., Los Angeles
Atkinson & McRae, 1008 S. Hill St.
Baverstock & Payne, 223 W. 1st St. Foods, medicines, oils, metallurgy
Bovee, W. J., 1326 W. 41st St. Metallurgy
Gooch, G. W., 322-23 Copp Bldg. Fertilizers, soils
Herman, John, 514 S. Los Angeles St.
Johnson, Edward E., 506 Pacific Bldg. Clinical diagnosis
Los Angeles X-Ray Laboratories, 307 S. Hill St., Room 800
Maas, A. R., 308 E. 8th St.
Pacific Wassermann Laboratories. Medical
Parks, E. L., 206 Story Bldg.
Perez, R. A., 120 N. Main St. Metallurgy
Smith Emery Co., 245 S. Los Angeles Ave.
Snowden, R. R., 320 Stimson Bldg. Agricultural
Tartarian & Pratt, First and Main Sts.
Walker, Mark, Wesley Roberts Bldg. Metallurgy
Wassermann Pacific Laboratories, 1012 Hollingsworth Bldg.
Wrana, King & Co., Inc., 822 E. 3d St.

Cal., Oakland
Benzinger, Richard, 1314 Market St.
Dugan, H. F., 715 50th Ave.
Gibson, Walter L., 824 Washington St.
Pacific Wassermann Laboratory, 1225 Washington St.
Western Laboratories, 24th and Broadway

Cal., San Francisco
Beckman & Linden Eng. Corp., Balboa Bldg.
Best, Otto, 593 Market St.
Butler Cereal Laboratories, 149 Cal. St.
Crosscup, I. O., 24 California Ave.
Curtis & Tompkins, 331 California St.
Drake, Bryant S., 501 Nevada Bank Bldg.
Dugan, H. F., 1170 Sutter Ave.
Eaton Laboratories, 340 Sansome St.
Flint, J. H., 344 14th St.
Forbes Chemical Co., 43 St. Anne St.
Glebovitch, A., 53 Stevenson St.
Gould & Ash, 216 Pine St.
Green, F. T., 500 Devisadero St.
Hamilton, Beauchamp Woodworth, 419 The Embarcadero
Hanks, A. A., 630 Sacramento St.
Heinrich, Edward O., 2682 Union St. Jurisprudence
Hunt & Co., R. W., 251 Kearny St.
Herb, Joseph, 3866 19th St. Pharmaceutical
James, G. A., 28 Belden Pl.
Kawin Co., Chas. C., 693 Mission St.
Lippman & Sugarman, 135 Stockton St.
Luckhardt Co., C. A., 53 Stevenson St.
Molyneaux, H. B., 42 First St. Pharmaceutical
Noble & Co., R. E., Humboldt Bank Bldg.
Pacific Chemical Laboratories, 417 Montgomery St. Foods, oils, paints, soap
Pacific Wassermann Laboratories, 501-506 Pacific Bldg.
Price & Son, Thos., 503 Market St.
Smith, Emery & Co., 651 Howard St.
Tales, J. K., 165 Jessie St.
West, Nicholas R., Laboratory, 463 Folsom St.
White, H. M., 516 Suter St.

Canada, Montreal
Canadian Inspection & Testing Laboratories, Ltd.
Milton Hersey Co., Ltd., 84 St. Antoine St. Industrial, inspection, metallurgy

Canada, Ontario
Allen, Lucius E., Canadian Bank, Commerce Bldg. Industrial, metallurgy

Canada, Quebec
MacKinnon Holmes & Co., Drummond St., Sherbrooke

China, Shanghai
Fong Yih-Sen, 268 Canton Road

Colo., Denver
Greenwald, Julius, 1484 Grove St.
Root & Simpson, 1744 Broadway.

Colo., Sherman
Olney, F. D., 301 Palm Ave. Metallurgy

Conn., Bridgeport
Bridgeport Testing Laboratories, 398 John St.
Ferry, Charles, 435 Washington Ave.
Sturges, H. M., 102 Aldine Ave. Rubber

Conn., Bristol
Moore, George P., 31 High St. Alloys, metallurgy

Conn., Hartford.
Hartford Laboratory Co., 112 High St.
Newlands Sanitary Laboratory, 11 Laurel St.
Souther Eng. Co., Henry, Low St.
Wheeler, S. P., 153 John St.

Conn., New Haven
Collins, Paul, 746 Chapel St.

Conn., New Britain
Davenport & Keeler, Inc., 441 Arch St.

Conn., Stamford
Borg Laboratories, 539 Main St.

Conn., Stratford
Peck, T. E.

Conn., Wilton
Winton, A. L. Foods, litigation

Cuba, Havana
Yturrioz, Gonzalo, Amagura 59. Pharmaceutical

Del., Wilmington
Abraham, Clinton D., 29 S. Sycamore St. Rubber
Betts, Wm. V., Lyle Apts. Saltpetre
Maltman, Wm. S., 2320 Washington St. Organic
Miller, W. P. Co., 809 French St.
Ortiz Analytical & Testing Laboratories, 510½ Market St.
Pipes, W. Henri, 926 French St.
Smith, Frank Roop, 508 King St.

D. C., Washington
Adams, A. B., Chief Chemist, Internal Revenue Laboratory, Treasury Dept.
Alsberg, C. L., Chief, Bureau of Chemistry, Dept. of Agriculture
Anderton, B. A., Chemist, Bureau of Public Roads
Bates, S. J., Sugar Chemist, Bureau of Standards
Bancroft, W. D., Chief, Chemistry Division, National Research Council
Bigelow, W. D., Director, National Canner's Association Laboratory, 1739 H St.
Bleininger, A. V., Ceramicist, Bureau of Standards
Bradbury, W. H., Washington Drug Exchange
Bradford, E. W., Patent Lawyer, Loan and Trust Bldg.
Burgess, G. K., Metallurgist, Bureau of Standards
Cannon, Claude C., Hygienic Laboratory
Chamberlain, W. E., Chief Chemist, Bureau of Engraving and Printing
Clarke, F. W., Chief Chemist, U. S. Geological Survey
Cottrell, F. G., Metallurgist, Bureau of Mines
Cushman, A. S., Director, Institute of Industrial Research, 19th and B, N. W.
Day, D. T., Petroleum Expert, Bureau of Mines
Dewey, F. P., Chief Chemist, Bureau of the Mint, Treasury Dept.
Dorset, Marion, Biochemist, Bureau of Animal Industry
Foster, A. B., Patent Lawyer, 724 9th St., N. W.
Fuller, H. C., Drugs, medicines, foods, 19th and B Sts., N. W.
Frankforter, G. B., Chemist, Ordnance, War Dept.
Gaff, T. T., Chemist, 1520 20th St.
Glyza Chemical Co., Mgr. R. K. Helphenstein Columbian Bldg.
Griffin, J. J., Head, Chem. Dept., Catholic University
Hargrave, J. O., Inspector Asphalt and Cements, District Government
Hillebrand, W. F., Chief Chemist, Bureau of Standards
Hilton, S. L., Pharmaceutical Chemist, 1033 22d St. N. W.
Howe, H. E., Industrial Research, National Research Council
Jones, Grinnell, Chief Chemist, U. S. Tariff Commission
Lamb, A. B., Director, Nitrate Laboratory, American University, War Dept.

Langworthy, C. F., Chief Chemist, States Relations Service, Dept. of Agriculture
McCambridge & McCambridge Co. (Inc.), Mfg. Chemists, 1226 11th St. S. E.
McElroy, K. P., Patent Lawyer, 711 G St. N. W.
McKenny, A. G., Metallurgist, Washington Steel and Ordnance Co.
McKinney, P. E., Chief Chemist, Washington Navy Yard
Munroe, C. E., Chem. Dept., George Washington University
Parker, C. L., Patent Lawyer, McGill Building
Parsons, C. L., Secretary, American Chemical Society. Consulting Chemist, 1709 G St. N. W.
Pozen, M. A., Chemist, Health Dept., District Government
Richardson, C. H., Chemist, Bureau of Entomology, Dept. of Agriculture
Runyan, E. G., Inspector Gas & Meters, District Government
Schertz, Frank M., Microchemistry, Bureau of Plant Industry
Scott, D. T., Biological Laboratories, 1513 15th St. N. W.
Seidell, A., Chemist, Hygienic Laboratory, 25th and B Sts. N. W.
Sosman, R. B., Acting Director, Geophysical Laboratory
Smith, F. G., Chemist, Bureau of Markets
Surface, H. E., Chemist, Forest Service, Dept. of Agriculture
Taylor, H. F., Chemist, Bureau of Fisheries, Department of Commerce
Townsend, C. P., Patent Lawyer, 918 F St. N. W.
Tyree, J. S., Pharmaceutical Chemist, 15th and H Sts. N. E.
Walker Gordon Laboratories, 1216 18th St. N. W.
Wesson, L. G., Consulting Organic Chemist, Chevy Chase, Md.
Wiley, Harvey W., Woodward Building

England, Eccles, near Manchester
Allchin, Leonard J., 92 Monton Road
Coal tar chemicals, phthalein dyestuffs

England, Liverpool
Price, N., 95 W. Derby Road.

England, London
Chapman, A. Chaston, 8 Duke St., Aldgate. Foods, pharmaceuticals

England, Walton, Warrington
Rowland, James W., 96 Ellesmere Road. Fats, oils

Fla., Jacksonville
Dux & Bro., Dr. H., 2400 Swan St.
Gresham, James, 507 E. Forsythe St.
Isaacs, Mark, 2805 Main St.

Fla., Plant City
Gooch, Stapleton D.

Ga., Atlanta
Atlanta Clinical Laboratory, 1011 Candler St.
Bliss, A. R., and Olive, A. H., 94 Butler St. Foods, drugs
Fairlie, Andrew M., Third Nat. Bank Bldg. Sulphuric acid
Law & Company, Inc., Walton Bldg.
Lloyd Laboratory, A. M., 10½ Auburn Ave.
Lockhart Laboratories, 33½ Auburn Ave. Fats, oils
McCandless Laboratory, 34 W. Alabama St.
Pratt Laboratory, N. P.
Trus-Con Laboratory, 604 Forsyth Bldg.

Ga., Ludawici
Thompson, P. H. Industrial

Ga., Macon
Morris-Flinn Co., 569 Cherry St.

Idaho, Boise
Jackson, H. Louis

Ill., Chicago
Accuracy Laboratories, 1724 W. Madison St.
Advance Testing Laboratory, 22 W. Quincy St.
Alsco Analytical Laboratories, 564 W. Randolph St.
Analytical Laboratories, Inc., 6 N. Michigan Ave.
Applied Chemical and Bacteriological Lab., 25 E. Washington St.
Bisno, Louis, 3343 W. 19th St. Fats, oils, soap
Black Chemical Laboratories, 20 S. LaSalle St.
Bonheim, L. M., 28 E. Kinzie St.
Boyer Chemical Laboratory
Brewers & Distillers Laboratory, 608 S. Dearborn St.
Burdick-Abel Laboratory, 7 W. Madison St. Physiology
Challis, Frank E., 25 E. Washington St.
Chemical & Engineering Co., 431 S. Dearborn St.
Chicago Laboratory, 25 E. Washington St.
Columbus Laboratories, 31 N. State St. Foods, industrial, physiology
Commercial Testing & Engineering Co., 1785 Old Colony Bldg.
Cutter Laboratory of Illinois, 180 N. Dearborn St. Pharmaceutical
Deavitt Laboratories, 209 S. LaSalle St. Development of processes

Deeds, Warren H., 11414 Calumet Ave. Industrial
Dixon Testing Laboratory, 136 W. Lake St.
Doolittle, R. E., 1625 Transportation Bldg. Food
Dunlap, F. L., 1457 Monadnock Blk. Plant control and operations
Ellis, R. S., 6549 S. Bishop St.
Fischer Laboratories, 25 E. Washington St.
Flood Laboratories, Walter H., 3725 Langley Ave.
Frank, Phillipson & Co., 122 S. Michigan Ave.
Frees, Herman E., 608 S. Dearborn St.
Gudeman, E., 140 W. Vanburen St. Consultation
Gulick-Henderson Co., 431 S. Dearborn St. Industrial
Helgeson. C. J. E., 6137 Kimbark Ave.
Heyl Laboratories, 1349 Webster St.
Hirsh, J. M., 1303 Tribune Bldg.
Hoskins, Wm., 111 W. Monroe St.
Hunt & Co., R. W., 2200-175 W. Jackson Blvd.
Illinois Chemical Laboratories, 440 S. Dearborn St.
Illinois Research Laboratories, 222 W. Wabash Ave.
Industrial and Chemical Laboratory Co., 19 S. Wells St.
Kawin Co., Chas. C., 431 S. Dearborn St.
Klaff, M. W., 1851 W. 12th St.
Laboratory of Pathology & Bacteriology, 25 E. Washington St.
Ledr, J. R., 846 Irving Pk. Bl.
Lincoln-Gardner Laboratory, 30 N. Michigan Ave.
Mariner & Hoskins, 111 W. Monroe St.
Medical Research Laboratories, 25 E. Washington St.
Miner Laboratories, 9 S. Clinton St. Feeds, fuels
National Bureau of Analysis, 209 S. State St. Urinalysis
National Pathological Laboratories, 8 S. Wabash Ave.
Niven, Maxim, 64 E. Jackson Blvd. Drugs, food
Pasteur Laboratories, 53 W. Jackson Blvd.
Peoples Bacteriological Laboratories, 1816 N. Wells St.
Peoples Laboratories, 1046 Wilson Ave.
Physicians Bacteriological Laboratory, 117 N. Dearborn St.
Pickard, Glenn H., 9 S. Clinton St. Paints, vegetable oils
Practioners Diagnostic Laboratory, 25 E. Washington St.
Research Laboratory of Chicago, 467 E. Ontario St. Dyes, pharmaceuticals
Schmidt-Lieban Laboratory of Path., Bact. & Toxicology, 64 E. Van Buren St.
Siebal & Co., E. A., 8 S. Dearborn St.
Siebel Sons Co., J. E., 960 Montana St.
Singer, Pearlstein Co., 30 N. LaSalle St.
Snow & Co., F. A., 1942 W. Kinzie St.
Teller, L. G., 31 N. State St. Foods, industrial, physiology
University Research Laboratories, 143 N. Washington St.
Wahl-Henius Institute, 1135 Fullerton Ave. Beverages, foods
Wassermann Laboratory, 2159 W. Madison St.
Wesener, J. A., 31 N. State St. Foods, industrial, physiology
X-Ray Laboratories, 615 Garfield Ave.

Ill., Decatur
Bisley, Jr., W. H., 155 N. Taylor Ave. Fuels, metallurgy

Ill., Joliet
Gray, H. M., 108 Whitney Ave. Aluminum salts

Ill., Rock Island
Frond, Karl V., 1011 2d Ave. Metallurgy

Ill., Springfield
Bain, W. G.

Ill., Urbana
Illinois State Water Survey, University of Illinois, Edw. Bartow, Dir.
Walcoff, M. I. Agricultural
Yancey, H. F. Rare fuels, rare metals

Ill., Vandalia
Westhoff, F. W. Asphalt

India, Lahore, Punjab
Bawa Kartar Singh

Ind., Hammond
Indiana Laboratories Co.,

Ind., Indiana Harbor
Street, G. J., 3507 Hemlock St. Alloys, pharmaceuticals, steel

Ind., Indianapolis
Duecker, W. W., 219 N. Senate Ave.
Fisher, D. F., 2458 College Ave. Drugs, foods
Ogle Laboratory, B. F., 327 Claypool Bldg. Micro stains, pharmaceutical
Petrie, J. W., 325 Newton Claypool Bldg.
Smith, T. W., Industrial Bldg.

Ind., Muncie
Peters, R. J., 309 W. Willard St. Metallurgy

Iowa, Cedar Rapids
Bates, C. O.

Hall, Jos J.
Lenders, A. W. H.
Iowa, Charles City
Benning, Edward A.
Iowa, Clinton
Bryant, A. P.
Iowa, Des Moines
Davis, N. W.
Harrison, Wm. H.
Jordan, Wm. C.
Kinney, Charles N.
Maffit, D. L.
Redfern, E. L.
Iowa, Dubuque
Breitback, John J.
Iowa, Fairfield
McKenzie, R. M.
Iowa, Grinnell
Hendrickson, W. S.
Iowa, Iowa City
Bond, Perry A.
Hinman, J. J.
Mortimer, F. S.
Olin, H. L.
Pearce, J. N.
Raiford, L. C.
Rockwood, E. W.
Iowa, Keokuk
Davis, Hugh N.
Iowa, Mt. Pleasant
Baker, J. A.
Iowa, Mt. Vernon
Knight, Nicholas
Iowa, Muscatine
Husted, H. L., 104 W. 5th St. Dyeing
Iowa, Oskaloosa
Stanley, F. C.
Iowa, Ottumwa
Hall, Lloyd A.
Kans., Baxter Springs
Heinz, C. E. Lead and zinc metallurgy
Ky., Danville
Coolidge, W. H.
Ky., Frankfort
Hoffman, E. A.
Ky., Georgetown
Leigh, J. R.
Ky., Lexington
Bancroft, G. W.
Bedford, M. H.
Brown, L. A.
Buckner, G. D.
MacHargus, J. S.
Maxson, R. N.
Peters, A. M.
Tuttle, F. E.
Ky., Louisville
Allen, J. D., Louisville Research Laboratory, Atherton Bldg. Pathological
Baldauf, L. K., 915 Stalks Bldg. Pathological
Commercial Laboratories, 1313 Starks Bldg.
Diagnostic Laboratories, 820 Starks Bldg.
Flexner, Morris, 948 S. 2d St. Pathological
Janes & Breckler, Inc. Feeds, fertilizers, fuels, control work
Laboratories of Clinical Research, 231 Atherton Bldg.
Louisville Research Laboratories, 730 Atherton Bldg.
Louisville Testing Laboratories, 503 Kentucky Title Bldg.
Southern X-Ray Laboratory, 6-10 Security Bldg.
La., New Orleans
Freeland, E. C., 931 Henry Clay St. Sugar
Gastrock, Edward A., 3120 Magazine St. Paints
Kirchhoff, Wm. P., 827 Gravier Ave.
Magné, J., Box 365. Fermentation
Metz, A. L., 4th floor, City Hall Annex
Morse, Irving H., 209 N. Peters St. Sugar
Nelson, W. P., Hennen Bldg.
Salvant, Walter R., 309 N. Front St.
Shilstone, Herbert M., 302 Camp St.
Williams, Edward G., 1008 Perrin Bldg.
Me., Eastport
Loomis, Henry M.
Me., Lewiston
Andrews, A. B., Journal Bldg.
Easley, C. W., University of Maine
Md., Baltimore
Browne, A. L., 215 E. Fayette St.
Burbage, L. W.
Colson, Jr., H. C., 2809 Mt. Holly Ave. Foods, pharmaceuticals, waters
Craft, Jacob, 110 S. Eutaw St.
Du Pont, A. F., 2701 W. Baltimore St. Foods
Engelhardt, H. D., 2912 Garrison Ave.
Gascoyne & Co., Inc., 27 S. Gay St. Fertilizers
Glacken, R. M., 211 N. Calvert St.
Glaser, Charles, 22 S. Gay St.
Lehmann & Son, G. W., 210 E. Lombard St.
Meade, Richard K. & Co., 11 E. Fayette St.
Miller, Ellis, 800 Reservoir St.
Penniman & Browne, 215 E. Fayette St.
Schuan, P. E., 705 N. Howard St. Medical
Stillwell, E. C., 3404 Holmes Ave.
Walker-Gordon Laboratory, Charles and Hamilton Sts.
Wiley & Co., Inc., Sexton Bldg., 7 S. Gay St.

Md., Baltimore, Orangeville
Hopkins, E. S., 904 9th St. Sanitation
Md., Curtis Bay
Mantius, Otto
Md., East Brooklyn
Law, LeRoy, M.
Md., Mount Washington
Schmann & Son, G. W., Rogers Ave. Commercial
Mass., Boston
American Agricultural Service Bureau, 9th Floor, 92 State St.
Barker, Perry, 851 Old South Bldg. Fuels
Barrier, E. A., 31 Milk St. Rubber
Belding, D. L., 80 E. Concord St.
Bennett, Frank W., 26 Broadway
Boston Bio-Chemical Laboratory, 585 Boylston St.
Boston Indian Rubber Laboratory, 729 Boylston St.
Boston Laboratories, 30 Huntington Ave.
Bosworth, A. W., 169 Mass. Ave.
Bradley, Theo. J., 179 Longwood Ave. Drugs, foods, sanitation
Brookline Chemical Co., 79 Sudbury Ave.
By-Products Realization Co., 60 Congress St.
Cabot, Godfrey L., 294 Washington St.
Carmichael, Henry, 88 Broad St.
Clinical Laboratory, 205 Beacon St.
Davenport, Bennett F., 34 School St., Room 36
Durfee, W. C., 51 Atlantic Ave. Textile mordants
Eyster, George S., 19 Central St.
Factory Mutual Laboratories, 31 Milk St.
Fuel Testing Co., 220 Devonshire St.
Greeley Laboratories, Inc., 665 Hunt Ave.
Hodson, O. E., 243 Franklin St.
Holloway, Percy E., 173 State St.
Industrial Research Laboratories, 219 Endicott Ave.
Kent, Chester & Co., 142 Berkeley St.
Kita, G., 113 Gainsborough St. Fermentation
Magrath, L. J., 120 Boylston St.
Mansfield Laboratories, Inc., 5 Apltn. St.
Merrill, Edward C., 77 Gainsborough St. Alloys, drugs, industrial
Miles, George W., 88 Broad St.
New England Bureau of Tests, Room 31, 12 Pearl St.
Palais, Samuel, 139 Harold St. Dyes
Physicians Laboratory, 93 Mass. Ave.
Pratt, W. B., 157 Franklin St.
Prescott S. C., 585 Boylston St.
Rupert, Frank E., 270 Brookline Ave. Physical
Sharpless, S. P., 26 Broad St.
Shaw & Co., John, 15 Elkins St.
Sherman, Herbert L., 12 Pearl St., Room 30.
Sutker, Solomon, 88 Broad St.
United Laboratories Co., 63 Leon St.
Weber, L. E., 729 Boylston St.
Werby Laboratories, 29 Central St.
Weston, Samuel, 14 Beacon St. Sanitation
Mass., Brookline
Crane, H. G.
Mass., Cambridge
Little, Arthur D., Inc., Charles River Road.
Mass., Leominster
Burdett, Harold W., 25 Grove Ave.
American Radio Research Corp., Medford Hillside, Mass.
Mass., Lowell
Carleton & Hovey, 236 Merrimac St.
Hood Co., C. H. I., Thorndike St.
Olney, L. A., Lowell Textile School Textiles
Mass., Roxbury
Ellis, William, 1 Goldsmith Pl.
Mass., Worcester
Boyajian, S. K., Box 858. Explosives, metallurgy, sanitation
Johnson, George H., P. O. Box 516
Precision Testing Laboratories, Box 858
Smith, W. A. C., 598 Main St.
Mich., Albion
Douglas, F. W., 402 Bidwell St. Metallurgy
Mich., Detroit
Allen, W. H., Detroit Technical Inst., Adams and Witherell Sts.
Detroit Chemical Laboratory, 33 High St.
Detroit Medical Laboratory, 1544-52 David Whitney Bldg.
Detroit Testing Laboratories, 674 Woodward Ave.
Diack & Smith, 49 Larned St., W. Metallurgy
Gartner, Oliver, 400 E. Columbia St.
Hayward, F. H., 602 Breitmeyer Bldg.
Industrial Engineering Co., 80 Griswold St.
Perry Testing Laboratory, foot of Third St. Commercial
Pittsburgh Testing Laboratories, 304 Telegraph Bldg.
Plumb, R. A., 190 Farrand Park. Cement, paint
Putnam, Wm. P. H., 674 Woodward Ave. Metallurgy

Root, Charles J., 1036 David Whitney Bldg. Pharmaceutical
Sherman Laboratory, 3334 Jefferson Ave.
Tecla Electric Laboratory, 193–195 Cass Ave.
Trus-Con Laboratories, 706 Trussed Concrete Bldg.
Underwriters Laboratories, Inc., 506 Farwell Bldg.

Mich., Flint
McDougal, T. G., Champion Ignition Co. Ceramics

Mich., Lansing
Robertson, E. L.

Mich., Port Huron
Nickle, Frank H., 1321 N. Bond St., Saginaw, Mich.
Weil, Charles L., P. O. Box 293.

Minn., Minneapolis
Briggs, C. N., Old Colony Bldg.
Drew, C. W., 322 S. 4th St., Room 300
Granger Laboratories, Medical Block
Howard Wheat & Flour Testing Laboratory, 12–22 Old Colony Bldg. Foods, feeds
Zenith Scientific Laboratories, 21 5th St., N. E.

Minn., St. Paul
Thatcher, Roscoe W., University Farm

Miss., Meridian
Katz, N. E., Cochran Bldg., Box 243.

Mo., Kansas City
Cross, R. M., 8th Fl., 1013 Grand Ave.
Cross, Walter M., 1013 Grand Ave. Sanitation
Estabrook, Alva W., 710 Wyandotte Ave.
General Testing Laboratory, 1112 Grand St. Industrial
Kansas City Testing Laboratory, 1013 Grand Ave.
Lyon, Albert C., 1112 Grand Ave. Building material, foods, fuels, metallurgy
McDougall Pasteur Laboratory, W. T. 640 Minn. Ave.
Southwestern Laboratories, 104 Mass. Bldg. Cereals
Wirthman Laboratories, 3436 Broadway. Petroleum shale

Mo., St. Joseph
Leo, Herbert I., 800 Grand Ave. Fermentation, foods

Mo., St. Louis
Caspari, Dr. C. E., St. Louis College of Pharmacy, 2108 Locust St.
Chauvenet, Regis & Bro., Rooms 14–16, 620 Chestnut St. Fuels, metallurgy, waters
Cox, W. W., 700 N. Broadway. Foundry metallurgy
Dahm, Henry L., 5911 Etzel Ave.
Duggan, Charles G., 1391 Goodfellow St. Pharmaceutical
Hinrichs Laboratories, Carl G. Hinrich, Ph.D., 412 Shenandoah Ave. Drugs, pharmaceuticals, commercial
Monfort, W. F., 506 N. Vandeventer Ave. Water
Robertson, J. D., c/o Robt. W. Hunt Co., 1403 Syndicate Tr. Bldg.
St. Louis Sampling & Testing Works, R. W. Barrell, Mgr., 713 Clark Ave. Metallurgy
Van Schrenk & Kammerer, 2276 Flad Ave. Timber preservation
Weidemann, H. E., 1604 Chemical Bldg. 721 Olive St. Industrial
Wixford, J. F., 2223 N. 9th St.

Mont., Butte
Giard, E. A., 321 Alabama St. Industrial research

Neb., Omaha
Barr, Wm. M., 4910 Dodge St. Waters
Campon, W. H., 541 S. H St. Alloys, coal, gas, metallurgy, water
Crowley, Charles F., 210 S. 18th St. Coal, gas, oil, potash, toxicology
Reed, Herbert B., 350 Princeton Ave. Chlorine products, phosphates

Nevada, Reno
Jacobson, C. Alfred, University of Nevada.

N. H., Nelson
Dolley, Chas S. Biological, plastics

N. J., Camden
Adams, Oscar G. Bleaches, dyestuffs

N. J., Bloomfield
Boeshore, Jay F., 14 Henry St. Industrial

N. J., Elizabeth
MacCready, Arthur A., 19 Highland Ave. Metallurgy, oils, pharmaceuticals

N. J., Hackettstown
Phillip, Herbert. Factory control, industrial research

N. J., Long Branch
Hazard, Elmer C., 75 Washington St.

N. J., Glen Ridge
Doolittle, Roscoe E., 109 Hillside Ave.

N. J., Montclair
Ellis-Foster Co.
New Jersey Testing Laboratories, 92–98 Greenwood Ave.

N. J., Newark
Baldwin, H. B., 927 Broad St.
Dannerth, Frederick, 325 Academy St.
Doggett, S. H., 116 Market St. Dairy products, foods, drugs, fertilizers, oils
Eakeley, Charles W., 144 Walnut St.
Edel Laboratories, Inc., 116 Market St. Coal, drugs, metallurgy, toxicology

Flinn, Frederick B., 43 Lawrence St.
Foster, John B., & Bro. Co., 138 Roseville Ave.
Friedman, Isaac, 51 Halsey Ave.
Gibson, Harriet W., 77 Washington Ave.
Levin, Isaac H., 186 Hillside Ave.
Maag, Charles R., 185 Mulford Ave.
Marx, Max, 43 Vesey Ave.
Maywald, Frederick, 86 Park Pl. Rubber
Palmer & Kohler, 10 Arch St.
Reigeluth, Edward L., 207 Broad St.
Reinhold, Otto F.. 53 Demarest St.
Renziehausen, Wm. F., Co., 45 Oliver St.
Wiener, Wm., 62½ Nelson Place
Yocum, John H., 325 Academy Ave.

N. J., New Brunswick
Vetter, John, 135 Johnson St.
Voorhees, Louis A., 111 Carroll Place Fuels, sanitation, soils, oils

N. J., Plainfield
Bindschedler, Emile. Artificial silk

N. J., South Orange
Gravelle, P. O., 114 Prospect St. Microscopy, photomicrography

N. J., Trenton
Walker-Gordon Laboratory Co., 234 N. Broad St.
Trenton Electro-Chemical Laboratory, 709 Hamilton Ave. Metallurgy
Wallace, Shippen, State House
Warren, Howard, 195 W. Hanover St.

N. J., Weehawken
Oilar, R. D., 843 Boulevard, E. Compounds, oils, soaps

N. Y., Albany
Muldoon, Hugh C., 43 Eagle St. Pharmaceuticals
Touceda, Enrique, 51 State St.
Wood, Chester J., 278 Yates St. Physiological

N. Y., Auburn
Case Research Laboratory

N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
Behnken, H. Emile, 466 Fifth St.
Hahlweg, George P., 1287 Hancock St. Commercial
Jordan, Stroud, Park and Nostrand Aves.
Olsen, J. C., 85 Livingston St. Foods, sanitation
Wills, J. L., 133 Midwood St. Beverages, yeasts

N. Y., Buffalo
Arner, Fred C., 291–303 Michigan Ave.
Hill, Herbert M., 20 W. Eagle St. Foods, drugs, poisons
Hoppenstedt, A. W., Laboratory, Perry and Mississippi Sts. Fats, leather, oils, waxes
Jennings, A. E., 6 Sterling Ave. Industrial
Miller, John A., 44 Lewis Block.
Niagara Frontier Laboratory, 194 Main St. Foods
Schierer, C. H., 95 Northampton St. Pharmaceuticals, tanning
Shields, Thomas P., 252 West Ave. Platinum
Sy, A. P., 24 High St.

N. J., Canajoharie
Hallock, A. P. Beverages, water

N. Y., Cuba
Moto Laboratories

N. Y., Ithaca
Briggs, Prof. T. R., Dept. of Chemistry, Morse Hall, Cornell University
Browne, Prof. A. W., Dept. of Chemistry, Morse Hall, Cornell University Gases, nitrogen compounds, non-aqueous solutions, pressure temperature work
Cavanaugh, Prof. G. W., Dept. of Chemistry, Morse Hall, Cornell Univ.
Chamot, Prof. E. M., Dept. of Chemistry, Morse Hall, Cornell Univ.
Cross, Prof. L. J., Dept. of Chemistry, Morse Hall, Cornell Univ.
Dennis, Prof. L. M., Department of Chemistry, Morse Hall, Cornell University
Georgia, F. R., Morse Hall. Sanitation
Jackson, S. D.
McKinney, A. E.
Nichols, Melvin N.
Rice, F. E., Morse Hall
Rider, A. J.

N. Y., Lackawanna
Babcock Testing Laboratory, 803-805 Ridge Road

N. Y., LeRoy
Jones, George P. Explosives

N. Y., Little Falls
Hansen's Laboratory, Chr., Inc.

N. Y., Mount Vernon
Horstman, Gustave, 136 S. 8th St. Pathology, pharmaceuticals

N. Y., New York City
Adams Chemical Laboratories, 490 E. 139th St.
Aisen, Maurice, 12 E. 48th St.
Alexander, Abr., 145 Nassau St. Synthetic chemistry
Alexander, Jerome, 11th Ave. and 59th St.
American Institute for Scientific Research, 44 E. 23d St.

American Radio & Research Corp., 21 Park Row.
Ashley, Percy C., 24 E. 48th St.
Bacon, Charles V., 3 Park Row. Fats paints, soap, litigation
Banks, John H., 61 Broadway
Barse Co., T. R. D., 662 8th Ave.
Baskerville, Chas., 140th St. and Convent Ave. Litigation, organization, research, noxious fumes, oils
Bendick Co., 312 E. 22d St.
Benjamin, Geo. H., 66 Broadway
Blackmore, Hy. S., 489 5th Ave.
Blaile, A., 76½ Pine St.
Bobrow, A. & J., 1885 Madison Ave.
Breneman, Abram R., 97 Water St.
Brooks, R. O., 191 Franklin St.
Brunelle, Geo. C., 802 Lexington Ave.
Bull & Roberts, 100 Maiden Lane
Bureau of Chemistry, N. Y. Produce Exchange, 2 Broadway
Chappelle, Philip, 92 Beekman St.
Claremont Laboratories, 101 W. 66th St.
Clinical Laboratories, 200 W. 56th St.
Connellan, J. J., 40 E. 41st St.
Constant Co., C. L., 42 New St., 5th Floor.
Cornwall, L. H., 375 Park Ave.
Curtman, L. J., 428 W. 59th St.
David, Albert, 80 Maiden Lane
Davis, Philip L., 156 5th Ave.
Dehlo & Stein, 546 W. 23rd St.
Doremus, Dr. Chas. A., 55 W. 53d St.
Douty, Daniel E., 340 Hudson St.
Dow & Smith, 131 E. 23d St.
Dreyfus, Wolfram E., 646 Madison Ave.
Dullin, Alfred E., 470 W. 66th St.
Edwards, W. F., 316 Hudson St. Physical
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
Epstein, H. M., 175 Front St.
Eschmanns, Richard A., 226 Lafayette Ave.
Faber, Henry B., 115 Broadway
Falk, K. G., 428 W. 59th St. Research
Farmer & Malcolm, East End Ave. and 80th St.
Featherstone Technical Research Laboratories, 1130 Church St.
Ferguson Laboratories, 121 W. 42nd St.
Fordham Andey Laboratory, 1278 Fulton Ave.
Franklin Laboratories, 338 Pearl St.
Fraser Laboratories, 50 E. 41st St.
Freeman, Walter K., 30 E. 42d St.
French-Pancoast Laboratories, Inc., 109 Broad St.
Galpin, H. T., 57 W. 57th St.
Geisler, Jos. F., 6 Harrison St.
General Research Laboratory, Inc., 514 E. 58th St.
Globe Chemical Laboratories, 58 Prince St.
Graf, Wm., 171 Madison Ave.
Griffin, James H., 277 Broadway
Grosvenor, Wm. M., 50 E. 41st St. Industrial
Halpern, Louis W., 48 7th St.
Haile, Wm. R., 47 W. 34th St.
Harnden, Frederick E., 99 John St.
Harris Laboratories, 86 Fulton St.
Hawkins Ives Corp., 9 Church St.
Hazard's, E. C., 74 Grove St.
Hedwig Laboratories, 729 7th Ave.
Hersey Co., Ltd., Milton, 198 Broadway
Higgins Laboratories, 40 E. 41st St.
Hirsch, Dr. J. M., 120 Broadway.
Hochstadter Laboratories, 227 Front St.
Hoff, John N., 17 Battery Pl.
Hollander, Louis, 60 E. 118th St.
Horn, T. P., 635 W. 115th St. Leather, oils, soap, varnish
Hudson, W. G., 1133 Broadway
Hudson & Co., Inc., 489 5th Ave.
Hunt, Fred F., 10 Old Slip St.
Hygienic Laboratories, 231 2d Ave.
Industrial Testing Co., 402 W. 23d St. Fermentation, foods
Institute of Chemistry, Pathology & Bacteriology, 45 E. 42d St.
International Druggists & Chemists Laboratory, Inc., 280 Pearl St.
International Laboratories, 65 Irving Pl.
Ising, Chas. E., 2228 Broadway
Jackson, Louis L., 5 Beckman St.
Jacobs Laboratory, Inc., 49 Wall St.
Jacoby, Henry E., 95 Liberty St.
Jaeck Co., Louis, 257 Front St.
Janny, Alois, 25 Frankfort St.
Johnson, Emil F., 96 Maiden Lane
Jones, Prof. Wm., 104 John St.
Jurist, Benjamin, 19 Park Pl.
Kamhourian, C. S., 321 Madison Ave.
Kann, Robert, 124 Front St.
Kilbourne, Chas. H., 1476 Broadway
Klotz, J. R. M., 120 Broadway
Knudsen, K. H. V., 96 Maiden Lane
Kobbler, Jos., 36 2d St.
Kraus Research Laboratory, Inc., 130 Pearl St. Ceramics, refractories
Kruskal, Nicholas, 329 Grand Ave.
Lantz, Carl C., 1931 Broadway
Lederle Laboratories, 39 W. 38th St.
Ledoux & Co., 99 John St.
Lee, A. Porter, Produce Exchange
Lee, Walter, 337 W. 22d St.
Levine, V. E., 36 E. 2d St.
Lieber & Co., H., 14 Platt St.
Lingert, A. E., 321 Madison Ave.

Loper, George W., 122 Front St.
Love, E. G., 130 E. 15th St.
Lowe, Charles O., Produce Exchange
McIlhiney, P. C., 50 E. 41st St.
McKenna, Dr. Chas. F., 56 Church St.
Manhattan Laboratories, 294 6th St.
Marvin-Davis Laboratories, Inc., 85 9th Ave. Feeds, foods, steels, waters
Mason Laboratories, Inc., 142 W. 125th St.
Masson, Henry J., 153 E. 184th St. Gas, petroleum
Matthews, J. Merritt, 50 E. 41st St. Dyes, textiles
Maywald, Frederick J., 89 Piné St.
Melzer, Wm., 66 Beekman St.
Metchnikoff Laboratory, 225 6th St.
Miller, David, 93 2d Ave.
Miller, Theo., 560 W. 48th St.
Munro & Co., 1 Liberty St.
Munsell, Chas. E., 110 Horatio St.
Murrill, Paul I., 50–52 E. 41st St. Explosives, intermediate
Murray Hill Laboratory, The, 321 Madison Ave.
National Pathological Laboratory, Inc., 19 E. 41st St.
New York Sugar Trade Laboratory, Inc., 80 South St. Sugar
N. Y. Testing Laboratories, 80 Washington St. Heat treatment, metallography, metallurgy
Niagara Chemical Laboratories, 76½ Pine St.
Official Testing Laboratories, R. O. Brooks, 191 Franklin St.
Orlewitz, H., 254 W. 34th St.
Palmenberg, Oscar W., 50 E. 41st St.
Pitkin, Lucius, Inc., 47 Fulton St. Alloys, metallurgy
Practitioners Laboratory, 624 Madison Ave.
Process Engineers, Inc., 501 Fifth Ave. Oils, paper, pulp
Randel & Co., F. L., 120 Liberty St. Dyestuffs, glycerine, oils, textiles, patents
Rankin, Jas., Jr., 99 John St.
Reed-Morris Laboratory, 227 Fulton St.
Reifenberg & Bro., F. E. (Inc.), 106 Fulton St.
Reimherr, Chas., 2017 Anthony Ave.
Reliance Laboratory, 77 Pearl St.
Research Laboratories, Inc., 19 Park Pl.
Ricketts & Co., Inc., 86 Maiden Lane
Rodrian, Rich., 143 E. 23d St.
Rogers, Robt. W., 18 E. 41st St.
Rosenthal, Dr. J. Myron, 767 Dawson St.
Rossati, Guido, 226 Lafayette St.
Rutstein, Leo., 2 Rector St.
Saarbach, Ludwig, 114 Pearl St.
Salinitro, Nicholus, 173 E. 116th St. Pathological
Sanche, Hercules, 489 5th Ave.
Schlauch, Theo. S., 368 W. 57th St.
Schlichting, Emil, 402 W. 23d St. Fermentation, foods
Schulhof, Dr. Leo, 90 John St.
Schwarz Laboratories, 200 Worth St. Biological, drugs, foods, fuels, lubricants
Scientific Station for Pure Products, 50 E. 41st St.
Schnitter, Adolph, 1230 Boston Rd.
Sherer Bros., 120 Front St.
Silliman, H. E., 136 W. 52d St.
Singer's Laboratory, 56 Lenox Ave.
Smith, Carl E., 5 Beekman St. Pharmaceuticals, wood distillation products
Smith, Martin & Co., 150 Lafayette St.
Sowers, Ossa, 4 Cedar St.
Sparks, John C., 30 Church St.
Sparks, Jno. E., 30 Church St.
Spring, Geo. A., 664 6th Ave.
Starr, Henry F., 80 Maiden Lane
Stebbins, Jas. H., Jr., 50 E. 41st St.
Stillman & Van Siclen Chemical Laboilatory Co., 6 Church St.
Stillwell & Gladding, 95 Front St.
Stillwell Laboratories, 76½ Pine St. Drugs, fertilizers, foods, ores, paints
Straus Laboratory, 348 E. 32d St.
Suckert, J. J., 30 Church St.
Sydenham Laboratories, 616 Madison Ave.
Takamine Laboratory, Inc., 120 Broadway
Talico Laboratory, 307 E. 119th St.
Teeple, Jno. E., 50 E. 41st St.
Terpezone Co., 18 E. 41st St.
Thomas, Alphonso H., 103 Front St.
Turner, Francis M., Jr., 1 Madison Ave.
Ulrich, Janet R., 23 Beaver St. Cereals, foods
Underwriters Laboratory, Inc., 135 William St.
United Laboratories, 45 E. 42d St.
Van Der Linde, Harold, 30 Church St.
Von Oefele, Felix, 326 E. 58th St.
Waller & Renaud, Inc., 159 Front St. Alloys, fertilizers, graphite, ores, waters
Warren, H. S., 18 E. 41st St.
Watters, Dr. L. L., 157 E. 23d St. Disinfection, sterilization
Weichmann, F. G., 39 W. 38th St.
Weichert, A., 101 Wall St.
Weinstein, Jos., 1771 Madison Ave.
Wiechmann, F. G., 90 West St.

Wolf, August S., 310 W. 95th St. Pathological
Worden, Edw. C., 2 Rector St.

N. Y., Niagara Falls
Currie, L. M. L., 222 Fifth St. Alloys, metals
Fitzgerald Laboratories, Inc., 107 State St.
Heindl, Raymond A., 462 11th St. Research

N. Y., Rochester
Coates, Bennett & Reidenbach, Inc., 97 St. Paul St.
National Food Manufacturers Laboratory, 86 White St. Foods
Probst Co., P. T., 29 N. Water St.
Richardson Corporation, 1069 Lyell Ave.
Scott, John Wood, 107 State St. Biological, foods
Smith, J. H., 61 South St.
Will Corporation, The, 262 East Ave.
Wright, Alfred G., 531 Main St., W.

N. Y., Schenactady
Organic Products Corporation, Schenectady Hygienic Laboratories.
Steinmetz, Charles P., General Electric Co.

N. Y., Syracuse
Booth, Wm. M., First Trust & Deposit Bldg. Textiles, waters
Cummings, J. Miles, 200 W. Castle St.
Cummings, W. L., 117 Standart St.
Englehardt, F. E., 405 City Hall
Fryer, George S.
Porter, J. Edw., 8 Clinton Block
Steinmetz, Charles P., Wendell Ave. Electrical

N. Y., Troy
Masox, Wm. P., Rensselaer Polytechnic Institute. Sanitation, waters

N. Y., Utica
Murray, W. S.

N. Y., Yonkers
Hallock, Albert P., 10 Stone St.

N. C., Charlotte
Drane Laboratory, Fred P.
Hawley's Laboratories.

N. C., Wilmington
Caldwell, T. B.
Law & Company, Inc. Fertilizers, foods, fuels, oils, paints, waters

Ohio, Canton
General Laboratories, 13th and Court Aves., S. W.

Ohio, Cincinnati
Broeman & Co., F. C. Laboratory, 215 E. 4th St.
Cincinnati Testing Bureau, Room 4, 31 E. 4th St.
Cincinnati Biological Laboratories Co., 54 Vindonesse Bldg.
Cook Biological Laboratories, Hamilton Pike, Mt. Healthy.
Dreckman, Dr. Otto, 1180 Harrison Ave.
Felton, S. J., 130 Woolper Ave. Metallurgy
Hopkins, L. L., Pollack Steel Co. Steel
Lunkenheimer Co., The, Waverly and Beekman Sts.
Meyers, Edw. G., 1014 Elizabeth St. Dyes, pharmaceuticals
Pittsburgh Testing Laboratory, 211 Bell Block
Robinson, Louis G., Laboratory, Harrison Bldg., 31 E. 4th St.
Shannon & Co., E. J., 217 Main St.
Simonson, Wm., 126 W. 9th St.
Werner, Louis, 914 Race St.
Westenfelder, B. D., 1414 Race St.
Wetterstroem, Theo. D., 118 E. 6th St.

Ohio, Cleveland
Agricultural Laboratory, 942 Prospect St. Agricultural
American Bureau of Analysis Laboratory, 338 Anisfield Bldg.
Bennett, E. J., 2041 E. 3d St.
Bishop, S. M., 6523 Euclid Ave.
Black, C. A., 513 Superior Bldg. Foods
Burwell, A. W., 3428 Euclid Heights. Research
Cleveland Laboratory, The, 605 Bangor
Cleveland Research Laboratory, 2391 W. 38th St.
Cleveland Testing Laboratory, 517 Superior Bldg.
Cremer & Case, 2800 Washington Ave., N. W.
Crobaugh, Frank L., Co., 1 Bratenhl Bldg.
Crowell & Murray, 407 Perry Payne Bldg. Metallurgy
Emmerton, Frederic A., 1501 Columbia Road, N. W.
Frank, E. C., 1315 E. 84th St. Metallurgy
Hannum Laboratory, 418 Caxton Bldg.
Herron, James H., 2041 E. 3d St.
Medical Chemical Laboratory, 646 Rose Bldg. Pathological
Mewton & McCurdy, 1426 W. 3d St.
Mohr Medical Laboratory, 617 Schofield Bldg.
Peck, Francis J., & Co., 731 Williamson Bldg.
Pittsburgh Testing Laboratories, 242 Rockefeller Bldg.
Rattle, W. J., & Son, 33 Commercial Bank Bldg.

Stern, Mortimer E., 2515 E. 43d St. Alloys, steels
Textor Chemical Laboratories, 603 Superior Ave., N. W.
Branches:
Agricultural Laboratory, 942 Prospect Ave., S. E.
Cleveland Laboratories, 942 Prospect Ave., S. E.
Industrial Testing Laboratory, 517 Superior Bldg.
Newton & McCurdy, 1426 W. 3d St., N. W.
Pittsburgh Testing Laboratories, 242 Rockefeller Bldg.

Ohio, Columbus
Howard, C. C., 151 E. Broad St.
Long, C. F., 8 E. Long St. Fertilizers, fuels, waters
Markworth, O. S., Ohio Testing Laboratory
Moore, Wendall A., 56 W. 10th Ave. Dye intermediates
Winthron, James R., Ohio State Univ. Industrial

Ohio, Dayton
Electrolytic Oxy-Hydrogen Laboratories, Inc., Beaver Power Bldg.

Ohio, Fremont
Benner, Raymond C., National Carbon Co.

Ohio, Toledo
Kirchmaier, G. A.
Morgan, G. S.
Rex, C. R., Tri-State Laboratories

Ohio, Youngstown
Moyer, Willard F., 72 Broadway. Atmospheric nitrogen, coke by-products
Pierce, Edwin G., Box 442

Okla., Bartletsville
Down, Donald B. Gas, oils

Okla., Oklahoma City
Walker, Wm. A., 401 2d St. Drugs, foods

Oregon, Corvallis
Harvey, E. M. Physiological

Oregon, Oregon City
Wiberg, Agart

Oregon, Portland
Edwards & Lazell, 537 Railway Exchange
Gilbert-Hall Co., 609–13 Couch Bldg.
Harding, E. P. W., 622 Worcester Bldg.
Lazell, E. W., Railway Exchange Bldg. Engineering chemistry
Oregon Independent Testing Laboratory, 263½ Yamhill Ave. Commercial
Pernot Laboratories, 502 Medical Bldg.,

Pa., Allentown
McCready, E. B.
Eastern Testing Laboratories
Snelling, W. O., 205 N. 5th St.

Pa., Arnold
Svenson, Elmer B., Kenneth Ave. Cement, explosives, fuels, gases

Pa., Aspinwall
National Canners' Laboratory. Foods

Pa., Easton
Shimer, Porter W., 94 Penna Ave.

Pa., Erie
Erie Laboratory, 1519 French St.

Pa., Lancaster
Goodell, J. E., 458 Woolworth St.

Pa., New Kensington
Churchill, H. V. Aluminum
Gorrell, John J., 209 Ridge Ave. Metallurgy

Pa., Palmerton
Smoley, E. R., Horse Head Inn. Zinc, metallurgy

Pa., Philadelphia
Adamson, Chas. B., 138 S. Third St.
Althouse & Heyer, 1502 Real Estate Trust Bldg.
Bacteriological Laboratory, 2d and Luzerne Sts.
Barnes, A. C., Co., 24 N. 40th St.
Booth Garrett & Blair, 406 Locust St. Metallurgy
Bragger, Edgar, 3551 N. 5th St.
Carlitz, Jos. S., & Co., 159 N. 2d St.
Chemical Laboratory of Philadelphia, 159 N. 2d St.
Chemical Service Laboratory, Inc., Real Estate Trust Bldg.
Clute, Wm. W., 2118 Arch St.
Conwell, E. L., 2024 Arch St.
Cook, Harold J.
Dairy Laboratories, 1937 Market St. Dairy products, foods, waters
Davis, George C., 39 S. 10th St.
Dean, J. Atlee, 5420 Baltimore Ave.
Dermatological Research Laboratories, 1720 Lombard St. Arsphenamine
Devor, George W., 113 Walnut St.
Dunker-Poole Co., 1829 Filbert St.
Eckels, H. S., & Co., Inc., 1922 Arch St.
Feinberg, Jacob L., 3500 Gray's Ferry Rd. Paints, varnish
Genth Chemical Laboratory, 138 S. 3rd St.
Graves, Meade & Baker Co., 639 N. Broad St.
Hamlin & Morrison, 119 S. 4th St.
Hance, A. M., 249 S. Orianna St.
Hand, Jacob H., 217 S. 24th St.
Harkinson, Robt., & Co., 249 S. Orianna Ave.
Heinle, Chas. L., Spec. Co., 2731 Kensington Ave.

Hite, Charles E., 305 S. 2d St.
Husband, Thom. J., Jr., 276 S. 3d St.
Industries Chemical Laboratories, 1500 Wolf St.
Isaac, Lawrence, 36 N. 4th St.
Jacobs, Saml., 908 N. 8th St.
Jones, Douglas & Co., 1910 N. Croskey Ave.
Jones, C. L., 1213 Filbert St.
Jones, W. H., 39 N. 50th St.
Jordan, Frank J., 915 N. 13th St.
Jordan, Jr., W. H. & F., 218 N. Delaware St.
Kernan & Valentine, 721 Walnut St.
Kesselman, L. E., 3134 Euclid Ave. Industrial
Kitsee, Dr. I., 209 Walnut Place
Langner, Paul H., 1726 Sansom St.
LaWall, Charles H., 30 S. 10th St.
Leichner, Charles, 1742 N. 10th St.
Lynch, John J., 632 Carpenter St.
Maynard, Lee H. P., 1937 Market St.
Meyer, Theodore, 924 Locust St.
Miller, R. C., 20th and Market Sts.
Miller, T. Slocum, Co., 3806 Lancaster Ave.
Morrison, B. H., 119 S. 4th St.
Noble, Robert P., 2000 Green St. Toxicology
Ogden Laboratories, 228 Chancellor St.
Philadelphia Chemical Laboratory, Inc., 159 N. 2d St.
Philadelphia Clinical Laboratory, Inc., 1833 Chestnut St.
Philadelphia Research Bureau, 159 N. 2d St.
Phillips & Jacobs, 622 Race St.
Pinkerton, Thos. C., Real Estate Trust Bldg.
Pittsburgh Testing Laboratory, Commercial Trust Bldg.
Reinhart, J. Q., 510 Arch St.
Rorer, Wm. H., 267 S. 4th St.
Rosenbaum Bros., 605 S. 3d St.
Rudy, Wm. D., 411 Walnut St.
Sadtler, S. S., & Sons, 210 S. 13th St. Commercial
Scharf, Morris, 2429 S. Adler St.
Schofield, H. A., Commercial Trust Bldg.
Searle & Hereth Co., 639 N. Broad St.
Siebert, E. A., 127 Walnut St.
Sloan, Earl S., Inc., 639 N. Broad St.
Slocum Co., Ltd., 639 N. Broad St.
Smith, N. B., 411 Walnut St.
Smith, Rudy & Co., 411 Walnut St. Fuels, metallurgy, waters
Spackman Engineering Co., Henry S., 2024 Arch St. Alloys, cement, coal, concrete, metallurgy, oils, waters
St. John, E. Q., 1831 Chestnut St.
Terry & Seibert, 127 Walnut St.
Tutwiler, C. C., 1629 Real Estate Trust Bldg.
Underwriter's Laboratories, Inc., Bullitt Bldg.
U. S. Bureau of Chemistry, 134 S. 2d St.
Walker-Gordon Laboratory Co., 1118 Jefferson St.
Wahl, Manfred, 1716 Chestnut St. Fermentation
Werbell Patho-Bacteriological Laboratories, 5th and Spring Garden
White, Albert R.
Whitfield, J. E., 404 Locust St. Metallurgy
Wilson, Robt. J., & Co., 102 N. 60th St.
Wolg, Chas. A., 600 S. 15th St.
Zoelle, Wm., 623 Alleghany Ave.

Pa., Pittsburgh

Anhaltzer, Henry, 323 Brushton Ave.
Aschman, F. F., 608 McCance Block
Bacon, Raymond, Mellon Institute Industrial Research
Beilstein, Edw. G., 2225 Perryville Ave.
Brown & Harley, 238 4th Ave.
Brownlee, H. R., Laboratory, Inc., 1903 Benedum-Trees Bldg.
Burrell, G. A., Benedum-Trees Bldg.
Craven Research Laboratories, 1019 House Bldg.
Dairy Laboratories, McCance Block Dairy products, foods, waters
Davis, E. B., 24 Emerson Ave.
Deane, Edgar A., 4719 Blair Ave.
Demmeler, P. E., 5414 Black St.
Duckwall, E. W., 2d and Brilliant Sts., Aspinwall
Ford, J. B., Co., 507 Commonwealth Bldg.
Golding, M. E., c/o Robert W. Hunt Co. Inorganic
Gorges, Chas. A., Peabody Chemical Laboratories. Coal, fertilizers, metallurgy
Gulick-Henderson Co., 525 3d Ave.
Hall & Paul, Empire Bldg.
Harley, F. O., Apollo Bldg.
Hoffman Process Co., Park Bldg.
Hunt & Co., R. W., Monongahela Bank Bldg.
Kirkpatrick, F. A., Bureau of Standards. Glass
Lehigh Valley Testing Laboratory, 1607 Benedum-Trees Bldg.
La Peer Laboratories, 637 Herron Ave.
Mason & Son, F. L., May Bldg.
McTaggart, J. R., McCance Block
Mellon Inst. of U. of P., O'Hara St.

Metallurgical Laboratory, Bailey Farrell Bldg.
Moore & Co., W. E., 706 Union Bank Bldg.
National Canners Laboratory, 2d and Brilliant Sts., Aspinwall. Canned products
Par Laboratories Co., 1st National Bank Bldg.
Pathological Laboratory, 1037 Murrayhill
Pittsburgh Chemical & Pathological Laboratory, McCance Block
Pittsburgh Metallurgical Co., 818 Park Bldg.
Pittsburgh Testing Laboratories, 7th and Bedford Aves.
Pittsburgh Wassermann Laboratory, May Bldg.
Rittman Process Corp., 115 Empire Bldg.
Rose, Floyd & Co., 1st National Bank Bldg.
Schindler Testing Laboratory, Geo., Hiland Bl.
Singer Memorial Research Laboratory, Wm. H., Parkway, East and Sandusky Sts.
Stahl, K. F., 57th and A. V. Ry.
Stanley, H. M., 355 S. Pacific Ave.
Steel City Testing Laboratory, Century Bldg.
Stern, Herman, 1436 5th Ave.
Stevens, K. K., Carnegie Institute
Sweeney, J. J., 237 McKee Pl. Coal
Trus-Con Laboratories, 1103 Pittsburgh Bank for Savings Bldg.
Watt, Wm. L., 1213 House Bldg.
Webb, Z., 861 Lilac St.
Williams, Jos., Co., 1104 Century Bldg.
Wilson, Wm. S., 336 Lehigh Ave. Fuels, gases
Witt, Harry L., & Co., 48 Logan St.
Wolstoncraft, I. C., 504 Marwood St.
Zemmer Co., 3943 Louisa Ave.

Pa., Sewickley
Severance, Raymond C., 4 Mellville Lane. Asphalts, bitumens

Pa., South Bethlehem
Richards, Joseph W., Lehigh Univ. Electrochemistry, metallurgy

Pa., State College
Kriss, Max. Nutrition

Pa., Waynesboro
Harbaugh, W. L. Metallurgy, plant supervisor
The Sharples Specialty Co., West Chester, Pa.

R. I., Newport
Davoll, David L., 270 Thames St. Fats, foods, oils, synthetic pharmaceuticals
Lorah, James R., & Co., 141 Bellevue Ave.

R. I., Providence
Bush & Co., Chas. S.
Calder & Strickland, 4 Market Square. Physiological, textiles
Fenner, Albert, 869 Westminster St.
Green, E. H., 531 Grosvenor Bldg. Coal tar derivatives
Hebden, J. C., Box 465
Perkins, George E., 1620 Smith St.
Saunders & Franklin, 184 Whittier Ave. Metallurgy

S. C., Charleston
Parker Laboratories
Sheppard Laboratories

S. C., Columbia
Nims, Boyden
Rice, Charles W.

S. C., Kershaw
Habenicht, Leroy H. Cotton seed products

S. D., Brookings
White, Malcolm C., 525 12th Ave. Analytical research

Tenn., Chattanooga
Chattanooga Chemical Laboratory, 808 Pine St.
Southern Chemical Laboratory

Tenn., Knoxville
Childress & Hunter, 7 Masonic Temple
Kuhlman & Chambliss Co., 301 S. Gay St.
Nichols Laboratory, 519 Prince St., Knoxville, Tenn.
Sanford, Chamberlain & Albers Co., 430 S. Gay St.

Tenn., Memphis
Barrow-Agee Laboratories, 301–309 Falls Bldg.

Tenn., Rockwood
Mills, Wm. M. Metallurgy

Texas, Austin
Riddell, D. F., Box 285. Mining

Texas, Dallas
Southwestern Laboratories, 1812½ Main St. Building materials cotton seed products

Texas, Fort Worth
Fort Worth Laboratories, 204½ Houston St.

Texas, Galveston
Paquin, Felix, Hall Bldg., 3d Floor

Texas, Houston
Houston Laboratories, 215 Main St. Cements, clays, coals, fertilizers, ores, petroleum, oils, seed products, soils, waters

Texas, Waco
Tenney, Robert B. Cotton seed products, fuels, soils

Utah, Salt Lake City
Bardwell, A. F., 158 S. West Temple
Bird-Cowan Co., 160 S. West Temple
Crimson & Nichols, 229 S. West Temple
Currie, J. W., & Co., 70 W. Broadway
Custer, A. E., 31 Post Office Place
Ebaugh, W. C., 809 Kearns Bldg.
Kingsley, G. E., 70 W. 4th St. South
Kinney, S. P., 1605 Walker Bank Bldg.
Officer & Co., R. H., 169 S. West Temple
Union Assay Office, 152 S. West Temple
Utah-Idaho Laboratory, 618 McIntyre Bldg.

Va., Norfolk
Norfolk Testing Laboratories, Inc., J. A. Callenbach, Director, Paul-Gale-Greenwood Bldg.
Thomas Coblenz & Temple, Inc., 103 Bank St. Coals, coke, fertilizers, foods, greases, packing house products, waters
Thomas, Edwin O., 803-12-14 Paul-Gale-Greenwood Bldg.

Va., Richmond
Froehling & Robertson, 815 E. Franklin St.
Robb & Arnold, 4½ N. 11th St.
Rudd & Bolenbaugh, 12th and Clay Sts. Foods, pharmaceuticals
Whitfield, J. M., 1109 E. Broad St.

Va., Roanoke
Gibboney, J. G., c/o N. & W. R. R.
Warren, Dudley T., 208 Winona Ave. Microscopical

Wash., Bremerton
Hart, Merrill C., 716 Washington St. Organic

Wash., Seattle
Bogardus Testing Laboratories, 90 Columbia Ave.
Darrin Co., Inc., 312 Pantages Bldg.
Dewsnap, Samuel G., 525 26th Ave., S.
Falkenburg & Co., 116 Yester Way. Inspection, plant control, plant design, smelter control, empire analysis
Frampton, Joseph F., Epler Bldg.
Garnet's Diagnostic Laboratory, Cobb Bldg. Pathological
Hildreth & Co., 116 Yester Way
Hunt, Robert W., 4608 Bagley Ave.
Knowles, Inc., Morris, 1200 Jones Bldg. Sewage, water
Laucks, I. F., 99 Marion St. Assaying, oils, smelter control, umpiring
Metropolitan Laboratories, 99 Marion St.
Newhall Co., Charles A., 1910 Westlake Ave. Cement, inspection, plant control, cereals, packing house by-products
Pacific Coast Testing Laboratories, 502 Lyon Bldg.
Pacific Wassermann Laboratories, 1013 Joshua Green Bldg. Pathological
Peterkin Memorial Laboratory, 1102 Cobb Bldg.
Physicians Clinical Laboratory, 1001 Cobb Bldg.
Pittsburgh Testing Laboratories, 1810 Westlake Ave.
Powell, Archibald O., Jr., 404 Central Bldg.
Secker & Harrison, 624 Northern B. & T. Bldg.
Smith, Corwin D., 1701 Hoge Bldg.
Stahl, K. F., 57th St. and A. V. Ry. Co. Inorganic research

Porto Rico, Potilles
Girona, L. A. Sugar

Wash., Spokane
Fassett & Co., N. 209 Wall St. Assaying

Wash., Tacoma
Bennett Laboratories, The, 1142 Market St. Smelter

W. Va., Clarksburg
Engle, Robert H., 201 Milford St.

Wis., Green Bay
Krause, A. C., 225 N. Ashland Ave. Organic

Wis., Madison
Burgess Laboratories, C. F.
Hawley, L. F., Forest Products Laboratory
Klueter, Harry, Chemistry Bldg.
Nichols, M. S., State Laboratory of Hygiene

Wis., Milwaukee
Atkinson, C. J., & Co., 326 Grand Ave.
Barrett, S. R., 1319 8th St. Dairy products, foods
Cochrane, T. H., 317 11th Ave.
Haerry, John H., 2400 Grand Ave.
Industrial Chemical Co. of Milwaukee, 200-210 Pleasant St. Beverages, feeds, foods, research
Kremers-Urban Co., 529-531 Market St.
Lemon, Edward B., 652-656 Wentworth Ave.
Northwestern Laboratories, 307 Grand Ave.
Paine, Dorothy, Station C, Box 327
Pittsburgh Testing Laboratories, 450 Prospect Ave.
Prentiss, George N. 225 34th St.

Wis., Reedsburg
Trebilcook, R. J. Dairy products

Wis., Waukesha
Kemmerer, George, 139 Laflin Ave.

Wyo., Laramie
Titus, Harry W., 565 N. 7th St.

II. CHEMICAL ENGINEERS

Ark., Fort Smith
Industrial Laboratories, Inc. Acetic acid, charcoal, manganese chloride (dioxide, sulphate), pyroligneous acid, wood alcohol

Cal., Los Angeles
Baruch, Edgar, 704 Wright and Callender Bldg.
Bovee, W. J., 1326 W. 41st St. Assaying
Payne, H. L., 223 W. 1st St.
Poindexter, R. W., 2112 E. 52d St.
Schmidt, W. A., 1016 W. 9th St.
Sirch, C. W., 125 W. Third St. Fats, oils, waxes
Walker, Mark, 211 W. First St. Gold, metallurgy

Cal., Oakland
Drake, Bryant S., 5830 Colby St.

Cal., San Francisco
Beckman & Linden Engineering Corp., Balboa Bldg.
Drake, Bryant S., 501 Nevada Bank Bldg.
Foundation Co., The, Holbrook Bldg.
Gould & Ash, 216 Pine St.
Heinrich, Edward O., 2682 Union St. Jurisprudence
Pacific Chemical Laboratories, 417 Montgomery St. Cereals, fats, oils, paints, petroleums, research, soap
Pike, Robert D., 74 New Montgomery St. Carbon, clay, insulation products
Westinghouse, Church, Kerr & Co.

Cal., Stanford University
Mitchell, J. Pearce

Canada, Belleville, Ont.
Allen, Lucius E., New Bank of Commerce Bldg.

Canada, Ottawa, Ont.
Haanel, Eugene, Department of Mines

Canada, Montreal
Allen, Lucius E., Canadian Bank Commerce Bldg. Metallurgy
Canadian Inspection & Testing Laboratories, Ltd.
De Cew, J. A., Canadian Express Bldg.
Hersey Co., Ltd., Milton, 84 Ontario St. Assaying, mining engineering and management, paving engineering, inspection
Ulmer, Jr., Geo. G., 4355 Montrose Ave. Electrochemistry, dry colors, paints
Westinghouse, Church, Kerr & Co.

Colo., Denver
Dorr Co., The, 1009 17th St.

Conn., Hartford
Goldstein, Louis J., 18 Adelaide St. Rubber
Southern Engineering Corp., Henry 11 Law St.

Cuba, Cienfuegos
Le Blanc, Evaristo Montalvo, Arguelles 145

D. C., Washington
Bradford, E. W., Loan & Trust Bldg. Patents
Institute of Industrial Research
Surface, Henry E., c/o U. S. Forest Service. Forest products
Swing, Alva F., 1739 P St. N. W. Boiler feed water
White, Alfred H., 204 Florence Court
Zeisberg, Fred C., 1018 Rodney St. Acids, nitrogen fixation

Del., Wilmington
Chemical Engineering Laboratory of Francis du Pont
Dann, Hollis H., Du Pont Exp. Station. Cotton seed by-products
Maltman, Wm. S., 2320 Washington St.

Fla., Plant City
Gooch, Stapleton D.

Ga., Atlanta
Fairlie, Andrew M., 3d Nat. Bank Bldg. Construction, control design of sulphuric acid plants
Law & Company, Inc.
Pratt Engineering & Machine Co.

Ga., Ludawici
Thompson, P. H. Industrial

Ill., Batavia
Sperry & Co., D. R.

Ill., Chicago
Boyer, Alden S., 201 E. Chestnut. Research
Burgess Laboratories, C. F., 111 W. Monroe St.
Cannon-Swenson Co., 53 W. Jackson Blvd.
Deavitt Laboratories, 209 S. LaSalle St. Development of processes, chemical plant construction
De Beers, F. M., 53 W. Jackson Blvd.
Deeds, Warren A., 11414 Calumet Ave. Development of processes, construction and design
Drucker, S., 608 S. Dearborn St.
Dunlap, F. L., 1457 Monadnock Blk. Processes, patents, plant control and operation
Flood, Walter H., 3725 Langley Ave.
Foundation Co., The, Rookery Bldg.
Garrigues & Co., Wm., W. 45th and Western Blvd.

Grossman, A. N., 5 N. LaSalle St.
Gudeman, Edward, 903 Postal Telegraph Bldg.
Gulick-Henderson Co., 4315 Dearborn St. Commercial
Hirsh, Dr. J. M., 1303 Tribune Bldg.
Hoskins, Wm., 111 W. Monroe St.
Khout, Jerome F., 37 Van Buren St.
Lord Corporation, C. H., 1910 Calumet Ave.
McCormack & Co., 33d and Armour Ave.
Marx & Co., V. E., 130 N. Wells St.
Mason, F. P., 140 S. Dearborn St.
McClure, C. H., 112 W. Adams St.
Niven, Maxim, 64 E. Jackson Blvd. Drugs, foods
Nuckolls, A. H., 207 E. Ohio St. Gases, rubber, vapors
Pickard, Glenn H., 9 South Clinton St.
Research Laboratory of Chicago, 467 E. Ontario St. Dyes, pharmaceuticals
Siebel, A. E., 8 S. Dearborn St.
Sieck & Drucker, Transportation Bldg. Hydrogenation of oils, treatment of oils
Singer, Pearlstein Co., 30 N. La Salle St.
Stroud, E. H., & Co., 928–934 Fullerton Ave.
Unger, John S., 3344 Broadway
Wahl-Henius Institute, 1135 Fullerton Ave. Beverages, foods
Water Purification Laboratories, 6549 S. Bishop St. Water purification

Ill., LaSalle
Ede, J. A.

Ill., Urbana
Bartow, Edward, University of Illinois Waters

Japan, Tokio
Nakamigawa, Yugoro Mitashiba. Electrochemistry

Ky., Louisville
James & Brecklor, Inc., Kentucky Title Bldg.

La., New Orleans
Freeland, E. C., 931 Henry Clay St. Sugar
Gastrock, Edward A., 3120 Magazine St. Paints
Liepsner, F. W., 825 Gravier St.
Magne, J., Canal Bank Bldg. Fermentation
Morse, Irving H., 213 N. Peters St. Sugar
Williamson, C. S., Jr., Tulane Campus

Md., Baltimore
Bartlett-Hayward Co.
Hoffman, Wm. E., Jr., 524 Equitable Bldg.
Meade, Richard K., 11 E. Fayette St.
Miller, Ernest B., 1100 Garrett Bldg.

Mass., Boston
Badger, E. B., & Sons Co., 63–75 Pitts St. Medical equipment
Barker, Perry, 851 Old South Bldg. Fuel tests
Barrier, Edw. A., 31 Milk St. Fire protection, rubber
Fish, Charles C. R., Engineers Club, Commonwealth Ave.
Lummus, Walter E., Co., 173 Milk St.
Parks-Cramer Co. Heat and heating systems
Sharples, Stephen P., 26 Broad St.
Weston & Sampson, 14 Beacon St. Disposal of factory wastes, sanitation, waters

Mass., Cambridge
Little, Arthur D., Inc., Charles River Rd.

Mass., Fall River
Austin, Herbert, P. O. Box 259
Scott, Ernest, & Co. Chemical plant equipment and processes

Mass., Lowell
Olney, Louis A., Lowell Textile School

Mass., Somerville
Wilkins, Harold S., 98 Central St. Electrochemistry

Mass., Worcester
Boyajian, S. K. Explosives, fuels, metallurgy

Mich., Ann Arbor
Baker, Edwin M. Chlorine salts, vacuum evaporation
White, A. H. Fuels, gases, paper mill wastes, nitrogen fixation
Wendler, A. F. Fuels, gases, metallurgy
Zimmerli, F. P., 1511 Washtenaw St. Metallurgy

Mich., Detroit
Cannon, J. L., 30 Prentiss Ave.
Detroit Testing Laboratory, 674 Woodward Ave.
Diack & Smith, 49 W. Larned St. Metallurgy
Plumb, R. Alfred, 190 Farnand Park. Cement and paint technology
Putnam, Wm. P., 674 Woodward Ave. Metallurgy
Steere Engineering Co., Woodward Ave. Chemical plant equipment
Ware, Elmer, 147 Westminster

Mich., Flint
McDougal, T. G. Ceramics

Mich., Midland
Hunter, R. M., Box 266. Electrochemistry
Nickle, Frank H., 1321 N. Bond St. Chlorine products, bromine products, caustic soda treatment

Minn., Minneapolis
Zenith Scientific Laboratories, 21 5th St., N.E.
Mo., Kansas City
General Testing Laboratory, 1114 Grand Ave. Commercial
Kansas City Testing Laboratory, 1013 Grand Ave.
Mo., St. Joseph
Leo, Herbert I., 800 Grand Ave. Fermentation, foods
Mo., St. Louis
Cross, Walter M., 1013 Grand St. Sanitation
Driemeyer, G. F., 5410 Vernon Ave. Metallurgy
Goldman Process Co., 1935 Boatman's Bank Bldg.
Hinrichs, Carl G., 4106 Shenandoah Ave. Commercial
Jones, Archibald, 4415 W. Pine Blvd.
Kessler, J. J., 224 S. Vandeventer St.
St. Louis Sampling & Testing Works, 711 Clark Ave. Metallurgy
Wiedemann, H. E., Chemical Bldg. Industrial, organic
Mont., Butte
Giard, Eugene A., 321 Alabama St. Industrial research
Neb., Omaha
Barr, Wm. M., 4910 Dodge St. Waters
Crowley, Charles F. Coals, foods, gas, oils, waters
Wilton, N. H.
N. H., Berlin
Comstock, R. L., 163 Denmark St. Caustic soda, common organic chlorine products, electrolytic chlorine
N. H., Keene
Dort, Robert G., 85 Washington St. Aeronautical chemical problems
N. H., Nelson
Dolley, Charles S.
N. J., Bloomfield
Boeshore, Jay F., 14 Henry St. Industrial
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., East Orange
Bicknell, R. S., 402 William St.
Matthews, J. M., 5 Berwyn St.
Myers, Ralph E., 257 Midland Ave.
N. J., Hackettstown
Phillip, Herbert. Factory control, industrial research, design, plant investigation, report
N. J., Jersey City
Booth Co., L. M., 58 Hudson St.
Fogg, Wendell G., 35 Boyd Ave.
Jacobson, David L., 578 Grand St. Coke by-products, gasoline, natural gas
Koven & Bro., L. O., 154 Ogden Ave. Equipment and industrial processes
N. J., Long Branch
Hazard, Elmer C., Manufacturing plants
N. J., Maywood
Tonry, Wm. S., Passaic St. near Elm
N. J., Montclair
Dinkins, Philip M., 49 Plymouth St.
Edel Laboratories, Inc., 116 Market St. Commercial
Ellis, Carleton
Ellis-Foster Co.
Lamkin, Charles D., 116 Market St. Coals, metals, waters
New Jersey Testing Laboratories, 92-98 Greenwood Ave.
N. J., Newark
Maywald, Frederick, 86 Park Place. Rubber
N. J., New Brunswick
Vetter, John, 135 Johnson St. Laboratory engineering
N. J., Parlin
Waite, W. J., c/o Hercules Powder Co. Nitrocellulose and allied products
N. J., Perth Amboy
Zwingerberger, O. K., 60 State St.
N. J., Plainfield
Bindschedler, Emile. Artificial silk
N. J., Rutherford
Schroeder, C. M. Edw.
N. J., Trenton
Trenton Electro-chemical Laboratories, 709 Hamilton Ave. Metallurgy
N. J., Weehawken
Oilar, Rozier D., 843 Boulevard, E. Fats, oils, soaps
N. J., Woodcliff-on-Hudson
Bruckmann, Gustav T., 1001 Park Ave.
N. Y., Brooklyn
Hahlweg, George P., 1287 Hancock St.
Johnson, John, Co. Filtration, industrial processes
Olsen, J. C., 85 Livingston St. Foods, sanitary science
Pines, William, 828 Eastern Parkway. Explosives
Ross, Chas., & Sons Co., 141 Classon St.
Wills, J. Lamson, 133 Midwood St. Beverages, ferments
N. Y., Buffalo
Arnold, Fred N., 401 Delaware Ave. Fats, glycerine, intermediates, oils, packing house products
Buffalo Foundry & Machine Co., 7 Winchester Ave. Equipment and processes

Hill, Herbert M., 20 W. Eagle St. Drugs, foods, poisons
Kohls, Clarence A., 1085 Elmwood Ave. Metallurgy
Sowers Mfg. Co. Equipment and processes
Zaremba Co., D. S., Morgan Bldg. Equipment and processes

N. Y., Ithaca
Briggs, T. R., Dept. of Chemistry, Morse Hall, Cornell Univ.
Browne, A. W., Dept. of Chemistry, Morse Hall, Cornell Univ.
Cavanaugh, G. W., Dept. of Chemistry, Morse Hall, Cornell Univ.
Cross, L. J., Dept. of Chemistry, Morse Hall, Cornell Univ.
Dennis, L. M., Dept. of Chemistry, Morse Hall, Cornell Univ.
Georgia, F. R., Dept. of Chemistry, Morse Hall, Cornell Univ.
Jackson, S. D., Dept. of Chemistry, Morse Hall, Cornell Univ.
McKinney, A. E., Dept. of Chemistry, Morse Hall, Cornell Univ.
Nichols, M., Dept. of Chemistry, Morse Hall, Cornell Univ.
Rice, F. E., Dept. of Chemistry, Morse Hall, Cornell Univ.
Rider, A. J., Dept. of Chemistry, Morse Hall, Cornell Univ.

N. Y., LeRoy
Jones, Geo. P. Explosives

N. Y., Long Island, Jamaica
Wagner, Glenn H., 59 Branford St. Metallurgy, process development

N. Y., New York City
Abbe Engineering Co., 220 Broadway Equipment and processes
Abbé, Paul O., New St. & Exchange Equipment and processes
Bacon, Charles, V., 3 Park Row. Fats, inspection, oils, paints, soap, testimony, varnish
Baskerville, Chas., 140th St. and Convent Ave. Hydrogenation, research organization and planing, rarer elements, oils, innocuous fumes
Beach-Russ Co., 220 Broadway Equipment and processes
Bethlehem Foundry & Machine Co., 149 Broadway. Equipment and processes
Boeck, P. A., 11 Broadway
Bowman, Walker, 39 Cortlandt St.
Brown, H. E., 115 Broadway
Campbell, C. L., 101 Park Ave.
Carden Process Co., 30 Church St.
Chemical Engineer & Research Corp., 120 Broadway. Equipment and processes
Chipman Chemical Engineering Co., 95 Liberty St. Equipment and processes
Chu, Cheng Hou, Hartley Hall, Columbia Univ. Industrial, organic
Chute, Harry O., 52 E. 41st St.
Cohoe, Walter P., 111 Broadway
Colby, Albert Ladd, 165 Broadway
Combustion Engineering Corp., 11 Broadway. Equipment and processes
Condict & Co., Alden S., 2 Rector St.
Dorr Co., The, 17 Battery Pl. Equipment and processes
Dow & Smith, 131 E. 23d St. Asphalts, bituminous materials, petroleum inspection, roofing and water proofing compounds
Du Vivier, E. H., 30 Church St.
Foundation Co., The, Woolworth Bldg.
Frasch, Hans A., 52 Broadway
Fraser, John, 50 Church St.
Freund, H. H., 154 W. 18th St.
Garrigue, Wm., 150 Nassau St. Equipment and industrial processes
Gerdés & Co., Inc., 36 Church St. Equipment and industrial processes
Grano, E. Vang, 217 Broadway
Greene, Van R. H., 50 Church St.
Greenawalt, John E., 50 E. 42d St.
Grosvenor, Wm. M., 50 E. 41st St.
Hallruk Chemical & Engineering Co., 215 Washington St.
Harris, Frank P., 26 Courtlandt St.
Hercules Engineering Corp., 501 Fifth Ave. Equipment and industrial processes
Hirsch, A., 50 E. 41st St.
Hirsh, J. M., 120 Broadway
Hooper-Falkenar Engineering Co.
Horn, T. P., 635 W. 115th St. Leather, oils
International Process Co., 5 Beekman St.
Jacoby, Henry E., 50 Church St.
Joyce, Clarence M., c/o J. Merritt & Matthews, 50 E. 41st St.
Kalbperry Corp., 31 Union Square, W. Design, investigation, supervision
Koven, L. O., & Bro., 50 Church St. Design, processes
Lungwitz, Emil E., 30 Church St. Filtration
Lyman Chemical Engineering Co., Ltd., 103 Park Ave.
Mantius, Otto, Woolworth Bldg. Caustic potash and soda
Marchand & Co., Chas., 233 Broadway
Marsh, Clarence W., 101 Park Ave. Design, processes

Marvin-Davis Laboratories, Inc., 85 9th Ave. Feeds, foods, metallurgy, waters
Masson, H. J., 153 E. 184th St. Equipment, natural gas, petroleum
Matthews, J. Merritt, 50 E. 41st St. Dyestuffs, textiles
McIntyre, A. G., 63 Park Ave. Paper, pulp
McKenna, Dr. Chas. F., 50 Church St.
Miller, Edward A., 529 W. 45th St.
Murrill, Paul I., 52 E. 41st St.
New York Testing Laboratories, 80 Washington St. Heat treatment, metallography, metallurgy
Oliver, T. C., 30 E. 42d St.
Ormont, Bernard, 106 John St.
Parker, Thos. J., 92 William St.
Peyton, Hunt Co., Inc., 55 Liberty St.
Pfaudler Co., The, 110 W. 40th St. Design
Pittsburgh Testing Laboratory, 50 Church St.
Process Engineers, Inc., 501 Fifth Ave. Oils, paper, pulp
Provost Engineering Corp., 220 Broadway
Randel & Co., F. L., 120 Liberty St. Dyestuffs, glycerine, oils, patented sealing compounds, textiles
Reinhard, Cyril D., 217 Broadway
Research Corporation, 63 Wall St.
Rickets & Co., Inc., 80 Maiden Lane
Roos', August, Son, 429 E. 91st St. Equipment, design, processes
Ruggles, Horace F., Wall and Front Sts.
Sanborn Evaporator Co., 50 Broad St. Equipment, design, processes
Schmatolla, Ernest C., 217 Broadway. Gas, refractory materials, high temperature furnaces, metallurgy
Simon, Emil J., 217 Broadway
Sinclair, A. F., Eng. Corp., 40 Church St.
Smith, Francis P., 131 E. 23d St.
Stevens Brothers, 149 Broadway Equipment, design, processes
Stillwell Laboratories, 76½ Pine St. Drugs, fertilizers, foods, ores, paints
Tenney & Co., Chas. H., 19 W. 44th St.
Teeple, John E., 50 E. 1st St.
Trent, Walte E., 120 Broadwav
Van Emden & Co., H., 145 W. 45th St. Paper, pulp, purification of cotton and wood fibre for nitrating purposes
Wallace & Co., J. H., 5 Beekman St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Whitaker, M. C., 27 William St.
Wiechmann, Ferdinand G., 330 W. 102d St.
Williams, F. M., 101 Park Ave.
Wolff, Harry W., 50 E. 41st St. Rare earth metals, pharmaceuticals, photographic chemicals
Wyckoff, G. H., 115 Broadway

N. Y., Richmond Hall
DeRosay, Kingsley E., 9104 118th St.

N. Y., Syracuse
Booth, William M., Trust & Deposit Bldg. Textiles, water
Porter, J. Edward, Box 785

N. Y., Troy
Mason, William P. Water supply, sewage

N. Y., Yonkers
Baekeland, Leo H.

N. C., Badin
Moormann, T. A., c/o Tallahassee Power Co. Electro and physical chemistry

N. C., Charlotte
Law & Company, Inc.
Chemical Construction Co.

Ohio, Akron
Gage, Roscoe M.
Portage Rubber Co. Rubber
Yokel, Francis C., 324 Beaver St. Acids, alkalis, dyestuffs

Ohio, Cincinnati
Broeman & Co., F. C., 215 E. 4th St.
Cincinnati Testing Bureau, Room 4, 31 E. 4th St.
Felton, S. J., 130 Wolper Ave. Metallurgy
Hill & Sons Co., First Nat. Bank Bldg.
Pittsburgh Testing Laboratory, 211 Bell Block
Robinson, Louis J., 31 E. 4th St. Ceramics, metallurgy

Ohio, Cleveland
Black, C. A., 513 Superior Bldg. Foods
Burwell, A. W., 3428 Euclid Heights Blvd. Construction, research
Crowell & Murray, 407 Perry Payne Bldg. Metallurgy
Frank, Ethon C., 1315 E. 84th St. Metallurgy
Herron, James H., 2041 E. Third St.
O'Brian, Wm. J., 3518 Prospect St. Heavy chemicals, pigments
Peck & Co., Francis J., Williamson Bldg.
Smith, Albert W., 1133 Bellflower Rd.
Steel Improvement & Forge Co., 5000 Winsor Ave.
Young, P. K. B., 1546 E. 84th St. Oils, varnishes

Ohio, Columbus
French & Co., Edward H., 606 Brunson Bldg.

Long, C. F., 8 E. Long St. Fertilizers, fuels, waters
Orton, Jr., Edward, 1538 N. High St.
Withrow, Jas. R., Ohio State University Acetic acid, caustic, chlorine, coal tar distillation, paints, petroleum, wood distillation

Ohio, East Akron
Knight, Maurice A.

Ohio, Lakewood
Kimmel, H. R., 18725 Sloane Ave.
Smiley, Virgil D., 17313 Franklin Ave.

Ohio, Mt. Vernon
Hope Engineering and Supply Co. Engines, gas, gasoline, oil

Ohio, Youngstown
Moyer, Willard L., 72 Broadway. Atmospheric nitrogen

Ohio, Toledo
Gage, Roscoe M., 206 Rosalind Pl.

Ore., Portland
Geijsbeek Engineering Co., Blake McFall Bldg.
Lazell, E. W., 537 Railway Exchange Bldg.
Olmsted, Frederic A., 630 Northwestern Bank Bldg.
Oregon Independent Testing Laboratory, 3d and Yamhill Sts. Bitumen, dairy products, foods, fuels, paints, pharmaceuticals

Pa., Arnold
Svenson, Elmer B., Kenneth Ave. Cement, explosives, fuels, gases

Pa., Coatesville
Coatesville Boiler Works

Pa., Easton
Shimer, Edward B., 94 Pennsylvania Ave. Metallurgical

Pa., Fullerton
Fuller-Lehigh Co. Equipment, design

Pa., New Kensington
Gorrell, John J., 209 Ridge Ave. Metallurgy

Pa., Palmerton
Smoley, E. R. Zinc metallurgy

Pa., Philadelphia
Eisenbrey, R. Howard, Harrison Bldg. Non-metallic mineral products
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Goldsmith, Henry F., 909 N. Franklin St.
Hering, Carl, 719 S. 13th St.
Meigs, Curtis G., Stephen Girard Bldg.
Rogers, C. Stanley, Stephen Girard Bldg.
Sadtler, Samuel S., & Sons, 210 S. 13th St.
Salom, Pedro G., Commonwealth Bldg.
Smith, Rudy & Co., 411 Walnut St. Fuels, metallurgy, waters
Spackman Engineering Co., Henry S., 2024 Arch St. Alloys, cement, coal, coke, metallurgy, oils, waters
Wedge, Utley, Stephen Girard Bldg.
Weeks, Chas. A., 11th and Westmoreland St.

Pa., Pittsburgh
Bacon, Raymond F., Mellon Institute
Duff, Samuel E., Empire Bldg.
Fair, Frederick C., Carnegie Tech.
Fieldner, Wm. S. Fuels
Foundation Co., The, Fulton Bldg.
Hall & Paul, Empire Bldg.
Handy, J. O., 612 Grant St.
Heinz, N. J., 1519 Oliver Bldg. Equipment
James, J. H., Carnegie Tech.
Jones, Archibald, 828 Frick Bldg. Zinc, sulphuric acid
Kinney, S. P., Bureau of Mines
Moore & Co., W. E., 706 Union Bank. Furnaces for ferro alloys, calcium carbide, power installations
Stahl, K. F., 57th St. & A. V. Ry.
Wilson, Wm. S. 336 Lehigh Ave. Fuels, gases

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Colby, Albert Ladd, 447 Lehigh St.
Richard, J. W., University Park

Pa., Waynesboro
Harbaugh, W. Le C., 122 N. Grant St. Metallurgy, supervision

Porto Rico, Patilles
Girona, Luis A. Sugar

R. I., Newport
Davoll, David, Jr. Fats, foods, pharmaceuticals, sugar

R. I., Peace Dale
Bacon, Nathaniel J.
Calder & Strickland, 4 Market St. Physiological, textiles

R. I., Providence
Saunders & Franklin, 184 Whittier Ave. Metallurgy

Tenn., Copperhill
Fairlie, A. M., P. O. Box 73

Texas, Austin
Riddell, D. F., Box 285. Mining

Texas, Dallas
Southwestern Laboratories, Main St. Building materials, oils

Texas, Fort Worth
Fort Worth Laboratories, The, 204½ Houston St.

Texas, Houston
Houston Laboratories, 215½ Main St. Cements, clays, coals, fertilizers, ores, petroleums, oils, seeds, soils, waters

Va., Dante
Callenbach, J. A.
Wash., Seattle
Bogardus Testing Laboratories, 90 Columbia St.
Campbell, Wells & Elmendorf, Prefontaire Bldg.
Darrin Co., Inc., 312 Pantages Bldg.
Falkenburg & Co., 116 Yester St. Inspection, testing, plant and smelter control and design, umpiring
Hildreth & Co., 116 Yester Way
Hunt, Robert W., 4608 Bagley Ave.
Laucks, I. F., 99 Marion St. Assaying, oils, smelter control, umpiring
Metropolitan Laboratories, 99 Marion St.
Newhall, Chas. A., 1810 Westlake Ave. Cement, cereals, lime, inspection, packing house by-products
Pacific Coast Testing Laboratories, 502 Lyon Bldg.
Pittsburgh Testing Laboratories, 1810 Westlake Ave.
Powell, Jr., A. O., 5047 41st Ave., S. W. Timber preservation
Wash., Tacoma
Bennett's Chemical Laboratory, 1142 Market St. Smelter
Wis., Madison
Burgess Laboratories, C. F., 1011–1015 E. Washington Ave.
Surface, Henry E.
Wis., Milwaukee
Wisconsin Consulting Laboratories, 220 Greenbush St.

VI. LABORATORIES

I. INDUSTRIAL LABORATORIES*

Abbe Engineering Co., 220 Broadway, New York City. Orrin Halstead
Abbott Laboratories, Ravenswood, Chicago, Ill. H. McCausland
Abel & Co., E. J., Chicago, Ill.
Acheson Graphite Co., Niagara Falls, N. Y. A. M. Williamson
Acieral Co. of America, Newark, N. J.
Acme Dyestuff & Chemical Co., Metuchen, N. J.
Acme Steel and Malleable Co., Buffalo, N. Y.
Adler Color & Chemical Works, 100 William St., New York City
Aetna Chemical Co., Carnegie, Pa.
Aetna Explosives Co., Inc., 120 Broadway, New York City. A. Stanley Fox
Agawam Chemical Works, 10 Waybosset St., Providence, R. I. Erik H. Green
Agawan Chemical Works, Providence, R. I.
Agricultural Chemical Works, Los Angeles, Cal.
Ainsworth & Sons, Wm., 2151 Lawrence St., Denver, Colo. A. W. Ainsworth
Ajax Metal Co., Frankford Ave. and Richmond St., Philadelphia, Pa.
Ajax Rubber Co., Trenton, N. J. C. S. Redfield
Akron Extract & Chemical Co., Akron, Ohio
Akron Varnish Co., Akron, Ohio
Albany Chemical Co., Albany, N. Y.
Albany Rendering Co., Albany, N. Y.
Allan-Pfeiffer Chemical Co., St. Louis, Mo.
Alleghany By-Product Coke Co., McKeesport, Pa.
Allen Chemical Co., Allentown, Pa.
Alliance Chemical Co., 176 Federal St., Boston, Mass.
Althouse Chemical Co., Reading, Pa. C. Scott Althouse
Alumina Co., Ltd., Inc., Widnes, England
Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa. Earl Blough
Amalgamated Dyestuff & Chemical Works, 75 Hudson St., New York City
American Agricultural Chemical Co., 2 Rector St., New York City. Plant: Carteret, N. J. J. E. Breckenridge
American Alkali & Acid Co., Bradford, Pa.
American Ammone Co., 220 W. 42d St., New York City
American Ammonia Co., Boston, Mass.
American Aniline Products, Inc., 80 Fifth Ave.
American Beet Sugar Co., 32 Nassau St., New York City
American Camphor Refining Co., Boston, Mass.
American Can Co., 120 Broadway, New York City. H. A. Baker
American Carbolite Co., Duluth, Minn.
American Color Mfg. Co., Passaic, N. J. Elvin H. Killheffer
American Cyanamid Co., 511 Fifth Ave., New York City. W. S. Landis
American Diamalt Co., 308 W. 4th St., Cincinnati, Ohio. C. von Egloffstain
American Druggists Syndicate, Boston, Mass.
American Gas Furnace Co., 26 John St., New York City. A. W. Machlet
American Hard Rubber Co., 9–13 Mercer St., New York City. A. C. Buttfield
American Hardware Co., New Britain, Conn. Jos. C. Andrews
American Hominy Co., Indianapolis, Ind. F. C. Atkinson
American Indicator Paper Co., 2547 Eastwood Ave., Chicago, Ill.
American Ink Co., 154 Nassau St., New York City
American Linseed Co., Woolworth Bldg., New York City
American Magnesium Corp., Niagara Falls, N. Y.
American Oleite Co., 1404 N. Park Pl., St. Louis, Mo. C. F. Beyer
American Optical Co., Southbridge, Mass. H. T. Reeve, Chief Scientist
American Platinum Works, 225–231 N. J. R. R. Ave., Newark, N. J.
American Pulley Co., 4200 Wissahickon Ave., Philadelphia, Pa.
American Rolling Mill Co., Middletown, O. W. J. Beck, Research Director
American Sheet & Tin Plate Co., Pittsburgh, Pa. Bradley Dewey
American Smelting & Refining Co., 120 Broadway, New York City. Plant: Pueblo, Colo. Wm. T. Isbell
Plant: Maurer, N. J. Chas. Mindeleff
American Spirits Mfg. Co., Peoria, Ill.
American Steel & Machinery Co., Mansfield, O. Melvin F. Pence

* *Names of individuals shown after firm names are chief chemists or laboratory directors.*

American Steel & Wire Co., Cleveland, Ohio
American Steel Foundries, 332 S. Michigan Ave., Chicago, Ill.
American Sugar Refining Co., 117 Wall St., New York City
American Synthetic Color Co., Stamford, Conn.
American Synthetic Dyes, Inc., 61 Broad St., New York City
American Tar Products Co., 208 S. La Salle St., Chicago, Ill.
American Tobacco Co., 111 Fifth Ave., New York City
American Transformer Co., 174–182 Emmet St., Newark, N. J. J. L. Schermerhorn
American Vanadium Co., Frick Bldg., Pittsburgh, Pa.
American Writing Paper Co., Holyoke, Mass.
American Water Softener Co., 1011 Chestnut St., Philadelphia, Pa. Geo. Bacon
American Zinc Co. of Tennessee, Mascot, Tenn. James E. Toomer
Ames Chemical Works, 21 Sherman Ave. Glens Falls, N. Y. W. H. Barber
Anaconda Copper Mining Co., Anaconda, Mont. A. L. O'Brien
Anderson Chemical Co., Wallington, N. J.
Aniline Products Co., Linden, N. J.
Anderson Chemical Co., Passaic, N. J. Edward Hirshfield
Anderson Phosphate & Oil Co., Anderson, S. C. E. L. Hutchins
Ansbacker & Co., A. B., 527 Fifth Ave., New York City
Ansul Chemical Co., Marinette, Wis.
Antikamnia Chemical Co., St. Louis, Mo.
Apex Chemical Co., Inc., 63 Park Row, New York City. S. M. Hermann
Apothecaries Hall Co., Waterbury, Conn. H. B. Rathbun
Arabol Mfg. Co., 100 William St., New York City. R. Bernhardi
Arbuckle Bros., Foot of Jay St., Brooklyn, N. Y.
Arcwell Corporation, 42 Broadway, New York City. Charles B. Waters
Arlington Co., Wilmington, Del.
Armitage Mfg. Co., Richmond, Va.
Armour & Co., Union Stock Yards, Chicago, Ill. Paul Rudnick
Armour Fertilizer Works, Union Stock Yards, Chicago, Ill. Fred. S. Lodge
Armour Glue Works, Union Stock Yards, Chicago, Ill.
Armstrong Cork & Insulation Co., 24th St. and Allegheny River, Pittsburgh, Pa. L. E. Cover
Arnold, Hoffman & Co., Inc., Providence, R. I. New York City: 61 Broadway J. G. Romero
Arnold & Marshall Co., South Seekonk, Mass.
Arrow Boiler Compound Co., Commonwealth Bldg., St. Louis, Mo. Fred. Berry
Asbestos Shingles, Slate, & Sheathing Co., Ambler, Pa.
Atlantic Dyestuff Co., 88 Ames Bldg., Boston, Mass. G. Meisel
Atlantic Refining Co., 3144 Passyunk Ave., Philadelphia, Pa. F. C. Robinson
Atlas Color Works, 322 Ninth St., Brooklyn, N. Y.
Atlas Crucible Steel Co., Dunkirk, N. Y.
Atlas Mineral Products Co., Lincoln, N. J.
Atlas Powder Co., Wilmington, Del. W. E. Fletcher, Chemical Director
Attaux F. E., & Co., 176 Purchase St., Boston, Mass.
Ault & Wiborg Co., Cincinnati, Ohio
Avon Sole Co., Avon, Mass.
Avri Chemical Co., 421 Johnstown Ave., Jersey City, N. J.

Babbitt, B. T., 11 Broadway, New York City
Bachmeier & Co., Inc., 438 W. 37th St., New York City. Henry Gettler
Bailey & Son, William, Wolverhampton, England
Baird & McGuire, Inc., Holbrook, Mass.
Baker & Co., Inc., Murray & Austin Sts., Newark, N. J.
Baker Chemical Co., J. T., Phillipsburg, N. J.
Baker Co., Franklin, New York City and Philadelphia
Balback Smelting & Refining Co., 580 Market St., Newark, N. J.
Baldwin Locomotive Works, 500 N. Broad St., Philadelphia, Pa.
Baltic Chemical Co., 183 Duane St., New York City
Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa. J. S. Miller, Jr.
Barclay Hobson & Co., Ltd., Manchester, England
Bare Paper Co., Roaring Springs, Pa.
Bario Metals Co., 167 W. 18th St., New York City
Barker Chemical Co., Savannah, Ga. H. R. Keister
Barr, Ltd., James G., Glasgow, Scotland R. Ritchie Hugh Whitelaw
Barrett & Co., N. L., 333 W. Lake St., Chicago, Ill.

Barrett Co., 17 Battery Pl., New York City
Bartlett Collins Glass Co., Sapulpa, Okla.
Bartlett & Snow Co., C. O., 1040 French St., Cleveland, Ohio. Raymond Wells
Bauer Chemical Co., Inc., 30 Irving Pl., New York City. Laboratories: Oneonta, N. Y. M. Hartmann
Baugh Chemical Co., Clinton and 11th Sts., Baltimore, Md.
Baugh & Sons Co., 20 S. Delaware Ave., Philadelphia, Pa.
Bausch & Lomb Optical Co., Rochester, N. Y. Frank Kolb
Baye Co., Inc., 117 Hudson St., New York City
Bayway Chemical Co., Elizabeth, N. J. W. D. York
Beach-Russ Co., 220 Broadway, New York City
Beaver Board Co., Buffalo, N. Y.
Beaverkill Color & Chemical Co., Cook's Falls, N. Y. R. Rosa
Beckman & Linden Engineering Corporation, 415 Balboa Bldg., San Francisco, Cal.
Berk & Co., Ltd., F. W., 1 Fenchurch Ave., London, E. C., England
Berlin Mills Co., Berlin, N. H.
Berry Bros., Detroit, Mich. John Shaw
Bethlehem Foundry & Machine Co., 149 Broadway, New York City
Bethlehem Steel Co., South Bethlehem, Pa.
Bettendorf Co., Bettendorf, Iowa. J A. Bretz
Bettendorf Oxygen-Hydrogen Co., Bettendorf, Iowa
Betts Co., C. G., Spokane, Wash.
Bielenberg Co., Inc., A., 67-69 Front St., New York City
Bilrowe Alloys Co., 1025 East F St., Tacoma, Wash.
Binney & Smith Co., 81 Fulton St., New York City. A. F. Kitchel
Bird & Co., J. A. & W., Boston, Mass.
Bischoff & Co., Inc., C., 451-53 Washington St., New York City
Bishop & Co., J., Platinum Works, Malvern, Pa.
Blackstone Chemical Works, 531 Grosvenor Bldg., Providence, R. I.
Blanke-Baer Chemical Co., St. Louis, Mo.
Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow, Scotland James C. Lawrence
Block Chemical Laboratories, 2085 La Salle St., Chicago, Ill. D. Julian Block
Bloede Co., Victor G., Baltimore, Md. Victor G. Bloede
Bobrick Chemical Co., 111 S. Garey St. Los Angeles, Cal. G. A. Bobrick
Booth Co., Z. M., 120 Center St., Nutley, N. J. J. H. Smith, Jr.
Booth Apparatus Co., Warren St., Syracuse, N. Y. Wm. Booth
Bosson & Lane, Atlantic, Mass.
Boston Belting Co., 84 Linden Park St., Boston, Mass. Mr. Ellinwood
Bound Brook Chemical Corp., 82 Beaver St., New York City
Bower Chemical Mfg. Co., Henry, 29th St. and Gray's Ferry Rd., Philadelphia, Pa.
Bowker Chemical Co., 60 Trinity Pl., New York City
Boyer Oil Co., Inc., 29 Broadway, New York City. E. Mas
Bradford Dyeing Association, Bradford, R. I.
Braun Corp., 363 New High St., Los Angeles, Cal.
Brewer & Co., Worcester, Mass.
Brier Hill Steel Co., Youngstown, Ohio
Briggs Chemical Works, Amherst, Ohio
Bristol-Myers Co., 281 Greene Ave., Brooklyn, N. Y.
Bradley & Vrooman Co., 2629-2640 Dearborn St., Chicago, Ill.
Brandes Co., Inc., Eighth Ave. and 34th St., New York City. F. C. Brandes
British-American Chemical Co., Inc., Ridgefield Park, N. J. V. Weaver Smith
Brown Co., Portland, Me.
Brunswick Mfg. Co., 1 Peace St., New Brunswick, N. J.
Brunswig Drug Co., 501 N. Main St., Los Angeles, Cal.
Buchanan Products Co., C. G., 118 E. Pearl St., Cincinnati, Ohio. H. N. Burns
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves., Buffalo, N. Y.
Buffalo Union Furnace Co., Buffalo, N. Y.
Bulls Ferry Chemical Co., Hudson Heights, N. Y.
Burdett Mfg. Co., 309-319 St. Johns Court, Chicago, Ill. B. C. Condit
Burdett Oxygen & Hydrogen Co., Pittsburgh, Pa.
Burgess & Long, Columbus, O. John R. Lower
Burns Supply Co., E. Reed, 40-42 Withers St., Brooklyn, N. Y.

Burroughs & Co., Jas. S., 56–58 Pine St., N w York City
Burroughs Welcome & Co., Snow Hill Bldgs., London, England
Bush Co., Chas. S., Providence, R. I.
Bush & Co., inc., W. J., 100 William St., New York City. Ralph S. Swinton
Butterworth-Judson Corp., 61 Broadway, New York City. Works: Newark, N. J., Boston, Mass., Baltimore, Md.
Butler Chemical Co., 25 Beaver St., New York City
By-Products Coke Corp., Chicago, Ill.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass. Warren E. Newbury
Cadillac Chemical Co., Cadillac, Mich.
Calco Chemical Co., Woolworth Bldg., New York City
California Aniline & Chemical Co., 33 Clementina St., San Francisco, Cal. B. R. Bowron
California Ink Co., San Francisco, Cal.
Calman & Co., Emil, 100 William St., New York City. F. H. Lane
Calorizing Corporation of America, 956–970 Oakland Ave., Detroit, Mich. H. H. Harris
Calumet & Hecla Mining Co., Calumet, Mich.
Calvert Aniline & Chemical Co., 28 W. 3d St., Cincinnati, Ohio
Cambria Steel Co., Philadelphia, Pa.
Camden Chemical Co., 42 Broadway, New York City
Camden Coke Co., Newark, N. J.
Cameron Powder Mfg. Co., Emporium, Pa.
Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St., New York City
Canada Carbide Co., Montreal, Canada, C. W. W. Crother
Canadian Aluxite Co., Niagara Falls, N. Y. Dwight E. Allen
Canadian Ammonia Co., Ltd., Toronto, Canada
Canadian Brake Shoe Co., Sherbrooke, Can.
Canadian Cement Co., Montreal, Canada
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St., Montreal, Canada. W. B. Wexgand
Canadian Electrode Co., Shawinigan Falls, Quebec
Canadian Electro-Products Co., Ltd., Power Bldg., Montreal, Canada. H. W. Matheson
Canadian Ferro-Alloys Co., Shawinigan Falls, Quebec
Canadian National Carbon Co., Ltd., Toronto, Canada
Canadian Salt Co., Ltd., Windsor, Ont., Canada. George H. P. Walker
Canton Corn Products Co., Clinton St. and Fourth Ave., Baltimore, Md.
Capitol Chemical Co., 621 Alabama Ave., Congress Heights, Washington, D. C. P. M. McKenna
Carborundum Co., Niagara Falls, N. Y. M. L. Hartmann
Carey Mfg. Co., Philip Lockland, Cincinnati, O.
Carnegie Steel Co., Pittsburgh, Pa. John S. Unger, Mgr., Central Research Bureau
Carnick Co., G. W., 23–27 Sullivan St.
Carpenter Steel Co., Front and Exeter Sts., Reading, Pa.
Carrier Engineering Corporation, 39 Cortlandt St., New York City. L. L. Lewis
Carus Chemical Co., La Salle, Ill. Leslie Graper
Casein Mfg. Co., 11 Pine St., New York City
Cassella Color Co., 182 Front St., New York City
Castner Electrolytic Alkali Co., Niagara Falls, N. Y.
Catalytic Chemical Co., Berkeley, Cal. Dr. F. Frank
Caulk Co., L. D., Milford, Del. Paul Poetschke
Celite Products Co., 11 Broadway, New York City. A. S. Elsenbast
Central Dyestuff & Chemical Co., Plum Point Lane, Newark, N. J. John Prochazka
Central Indiana Gas Co., Muncie, Ind.
Central Iron & Coal Co., Hott Ala.
Central Scientific Co., 460 E. Ohio St., Chicago, Ill. H. V. Cadwell
Century Colors Corp., 182 Front St., New York City
Certainteed Products Corporation, St. Louis, Mo.
Champion Chemical Works, 19 W. Austin Ave., Chicago, Ill.
Champion Fibre Co., Canton, N. C.
Charleston Chlorine Co., 120 Broadway, New York City. Works: Belle, W. Va.
Chatfield Mfg. Co., Cincinnati, Ohio. H. A. Sjodahl, E. W. Kinker
Chattanooga Gas & Coal Products Co., Chattanooga, Tenn.
Chemical Co. of America, Inc., 28 Platt St., New York City. S. Isermann
Chemical Construction Co., Trust Bldg., Charlotte, N. C.
Chemical Products Co., 93 Broad St., Boston, Mass.

Chemical Products Co., 612–616 Majestic Bldg., Denver, Colo. H. Fleck
Cheney Bros., South Manchester, Conn.
Chicago Copper & Chemical Co., Western Union Bldg., Chicago, Ill.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago, Ill. Frank E. Miller
Chile Exploration Company Laboratories, 202d St. and 10th Ave., New York City
Chipman Chemical Engineering Co., 95 Liberty St., New York City. C. L. Weirich
Chiris, Antoine Co., 18 Platt St., New York City
Chrome Color Works, Chrome, N. J.
Chrome Steel Works, Chrome, N. J.
Chromos Chemical Co., Inc., Aeolian Hall, New York City
Church & Dwight Co., 27 Cedar St., New York City
Citizens Gas Co., Majestic Bldg., Indianapolis, Ind. Samuel E. Cockerill
Clare Mfg. Co., 8th Ave. and 34th St., New York City
Clarke Chemical Co., St. Claire St., Wickliffe, Ohio. Graham W. Clarke
Clayton & Jowett, Ltd., Liverpool, England. J. W. Clayton
Clawson Co., 240 Chestnut St., Philadelphia, Pa. J. L. Clawson
Cleveland Brass Mfg. Co., 4606–4700 Hamilton Ave., Cleveland, Ohio. A. W. Clement
Cleveland-Cliffs Iron Co., Rockefeller Bldg., Cleveland, Ohio. E. J. Hudson
Cleveland Twist Drill Co., Cleveland, Ohio. J. V. Emmons
Coal Products Co., Aurora, Ill.
Colburn Co., A., 110 N. 2d St., Philadelphia, Pa.
Colgate & Co., Jersey City, N. J. Martin H. Illner
Colorado Fuel & Iron Co., Boston Bldg., Denver, Colo.
Colorado Radium Products Co., First Nat. Bank Bldg., Denver, Colo. A. H. Gow
Columbia Chemical Constructive Co., Ft. Washington, Pa.
Columbia Chemical Co., Frick Bldg., Pittsburgh, Pa.
Columbia Chemical Construction Co., Fort Washington, Pa.
Combustion Engineering Corporation, 11 Broadway, New York City
Commercial Acid Co., Boatman's Bank Bldg., St. Louis, Mo.
Commercial Chemical Co., 212 Essex St., Chicago, Ill.
Commercial Research Co., Long Island City, N. Y.
Commonwealth Color & Chemical Co., Butler St., Brooklyn, N. Y.
Commonwealth Glue Co., 40 N. Market St., Boston, Mass.
Condensite Co. of America, Bloomfield, N. J. Donald Kendall
Consolidated Dental Mfg. Co., 130 Washington Pl., New York City
Consolidated Mining & Smelting Co., Toronto, Canada
Consolidation Coal Co., Fairmont, W. Va.
Contact Process Co., P. O. Box 98, Buffalo, N. Y. H. von Rucker
Cooper & Co., Chas., 194 Worth Sts., New York City. Works: Newark, N. J.
Cooper & Cooper, 309 Broadway, New York City. Dr. Tisza
Cooper & Nephews, William, 152–154 W. Huron St., Chicago, Ill. E. G. Reisl
Cooper Glue Factory, Peter, 28th St. and 11th Ave., New York City
Cooper Hewitt Electric Co., 8th and Grand Sts., Hoboken, N. J. R. D. Mailey
Consolidated Dental Mfg. Co., 130 Washington Pl., New York City
Consumers Refining Co., 1030 Fort Dearborn Bank Bldg., Chicago, Ill.
Corby Co., Langdon Station, Washington, D. C. F. Alexander McDermott
Cornbrook Chemical Co., Ltd., Stockport, England
Corn Products Refining Co., 17 Battery Pl., New York City
Corning Glass Works, Corning, N. Y. E. C. Sullivan
Corrizo Extract Co., 211–215 W. 20th St., New York City
Cosmic Aniline Works, Inc., 8 W. Broadway, New York City. N. S. Kalman
Crane Co., 836 S. Michigan Ave., Chicago, Ill.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts., Philadelphia, Pa. N. R. Schwenk
Cravenette Co., U. S. A., 354 Fourth Ave., New York City. Herbert Pearson
Cremoline Disinfecting Co., 17 S. Main St., St. Louis, Mo. Jas. Varley
Crucible Steel Co. of America, Pittsburgh, Pa.
Cyclops Steel Co., Titusville, Pa. C. T. Evans

Dahlstrom Metallic Door Co., Jamestown, N. J. Henry L. Beakes
*Daigger & Co., A., 54 W. Kinzie St., Chicago, Ill.

Danforth Chemical Co., Willard St., Leominster, Mass.
Davis-Boornonville Co., Jersey City, N. J.
Davis Chemical Co., 120 Broadway, New York City
Davison Chemical Co., South and German Sts., Baltimore, Md.
Dayton Steel Foundry Co., Dayton, O.
Dean, J. Atlee, 5420 Baltimore Ave., Philadelphia, Pa.
Dearborn Chemical Co., McCormick Bldg., Chicago, Ill. D. K. French
Dearborn Chemical Co., Smithy Bridge, near Rochdale, England
Dearborn Drug & Chemical Co., Chicago Ill. W. A. Converse, Chemical Director
Dehls & Stein, Inc., 408 W. 13th St., New York City
Dennison Mfg. Co., Framingham, Mass. Frank Hawkes
De Laval Separator Co., 165 Broadway, New York City
Denver Chemical Mfg. Co., 57 Laight St., New York City
Detroit Alkaloidal Co., 278 Bush St., Detroit, Mich.
Detroit Chemical Works, Detroit, Mich. A. B. Conner
Detroit Copper & Brass Rolling Mills, 95 Clark Ave., Detroit, Mich. Edward Gutsche
Detroit Heating & Lighting Co., Detroit Mich.
Detroit Organic Chemical Co., Dime Bank Bldg., Detroit, Mich.
Detroit Range Boiler Co., 607–623 24th St., Detroit, Mich.
Devine Co., J. P., 1366 Clinton St., Buffalo, N. Y. W. H. Buchagen
Devoe & Raynolds Co., 101 Fulton St., Brooklyn, N. Y.
Diamond Crystal Salt Co., St. Clair, Mich.
Diamond State Fibre Co., Bridgeport, Pa. James McIntosh
Dickinson & Co., J. Q., Malden, W. Va.
Dicks, David & Heller, Chicago Heights, Ill.
Dicks, David Co., Inc., 302 Broadway, New York City. Geo. C. Lommel
Didier-March Co., P. O. Box 327, Perth Amboy, N. J.
Dielectric Mfg. Co., St. Louis, Mo. F. F. Kessler
Digestive Ferments Co., Detroit, Mich. Howard T. Graber
Dill & Collins Co., Richmond and Tioga Sts., Philadelphia, Pa.
Dings Magnetic Separator Co., 671 Smith St., Milwaukee, Wis. Geo. H. Fobian
Disston & Sons, Inc., Henry, Philadelphia, Pa. Aaron Merzbacher
Dixon Crucible Co., Joseph, Jersey City, N. J.
Doggett, Stanley, Cliff and John Sts., New York City
Doherr, Grimm & Co., Inc., 87 Gold St., New York City. E. F. Ernest
Dorr Co., The, 17 Battery Pl., New York City. Also Denver, Colo. H. W. Fox
Dover By-Product Coke Co., Cleveland, Ohio
Douglas Co., Cedar Rapids, Iowa
Dow Chemical Co., Midland, Mich. E. O. Barstow
Drackett & Sons Co., P. W., 5020 Spring Grove Ave., Cincinnati, Ohio. B. S. Hull
Driver Harris Co., Railroad Ave., Harrison, N. J. C. J. Stultz
Drug & Dyestuff Corporation, 120 Broadway, New York City. F. P. Summers
Drying Systems, Inc., 322 N. Michigan Ave., Chicago, Ill. R. E. Lippart
Dubarry et Cie., 81 Brompton Rd., London, S. W., England
Ducktown Sulphur, Copper & Iron Co., Isabella, Tenn.
Du Pont de Nemours & Co., E. I., du Pont Bldg., Wilmington, Del. Charles L. Reese, Chemical Director
Duquesne Reduction Co., Pittsburgh, Pa. Chas. G. Snyder
Duriron Castings Co., 90 West St., New York City
Dwight Mfg. Co., 14 S. Jefferson St., Chicago, Ill. F. B. Gilbert
Dwight & Lloyd Sintering Co., 29 Broadway, New York City. B. W. Hyde
Dye Products & Chemical Co., Inc., 200 Fifth Ave., New York City. C. K. Simon

Eagle Color & Chemical Co., 4 Cedar St., New York City
Eagle Printing Ink Co., 265 Gates Ave., Jersey City, N. J. Chas. Muzzio
Eastern Chemical Works, Elmwood, Conn.
Eastern Electrochemical Co., South Brewer, Mo.
Eastern Mfg. Co., Bangor, Me. H. H. Hanson
East Jordan Chemical Co., East Jordan, Mich.
Eastman Kodak Co., 343 State St., Rochester, N. Y.
Economy Soap Products Co., Dayton, Ohio
Eddy Chemical Co., 1189 Harrison Ave., Cincinnati, Ohio

Eddy Co., E. B., Hull, Canada
Edgar Zinc Co., Cherryvale, Kansas
Edgertyn Aniline Corp., 118 William St., New York City
Edison Central Research Lab., Silver Lake, N. J. Harold N. Cox
Edison Portland Cement Co., Stewartsville, N. J.
Edison, Inc., Thomas A., West Orange, N. J.
Eimer & Amend, 205–211 Third Ave., New York City
Eissing Chemical Co., 225 Fifth Ave., New York City
Ekenberg Co., Cortland, N. Y.
Electrical Chemical Works, 797 Lexington Ave., Brooklyn, N. Y.
Electric Arc Cutting & Welding Co., 222 Halsey St., Newark, N. J. E. S. Hurd
Electric Reduction Co., Ltd., Washington, Pa.
Electric Smelting & Aluminum Co., Lockport, N. Y.
Electric Storage Battery Co., Philadelphia, Pa. George M. Howard
Electro Bleaching Gas Co., Niagara Falls, N. Y.
Electro Chemical Co., 111 Court St., Dayton, Ohio. John Gerstle
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St., New York City. I. H. Levin
Electrolytic Zinc Co., Inc., 16th St. and 2d Ave., Canton, Baltimore, Md. (P. O. Address) Colgate, Baltimore Co., Md.
Electro-Metallurgical Co., 30 E. 42d St., New York City
Electro Metals, Ltd., Welland, Ont., Canada
Electron Chemical Co., 120 Exchange St., Portland, Me.
Eli Lilly & Co., Indianapolis, Ind. F. R. Eldred
Elyria Enameled Products Co., Elyria, O. Emerson P. Poste
Empire Chemical Co., 149 Broadway, New York City
Empire Refineries, Inc., Unity Bldg., Tulsa, Okla. Sidney Bern
England Walton & Co., Third and Vine Sts., Philadelphia, Pa. C. W. Reilly
Essanay Products Co., 200 W. Superior St., Chicago, Ill. Rudolph Peiser
Essential Oil Specialties Co., Inc., Grassland, Del. Co., Pa. Gustave Mahlck
Everlasting Valve Co., 2 Rector St., New York City. W. G. Wilson
Exchange By-Products Co., Corona, Cal. C. P. Wilson
Exolon Co., 156 Sixth St., Cambridge, Mass. H. T. Kalmus
Fabricated Steel Products Corporation, Leetonia, Ohio. Warren B. Thompson
Fairbank Co., N. K., 143 Dearborn St., Chicago, Ill.
Fairmont Chemical Co., Fairmont, W. Va.
Farmers Fertilizer Co., Columbus, Ohio
Fassett Co., C. M., 209 N. Wall St., Spokane, Wash. H. H. Robinson
Faultless Rubber Co., Ashland, Ohio. E. F. De la Croix
Feculose Co. of America, Ayer, Mass., John Traquair
Federal Chemical Co., Louisville, Ky.
Federal Dyestuff & Chemical Corporation, Kingsport, Tenn.
Fels & Co., Philadelphia, Pa.
Ferguson Bros., 109 Chestnut St., Philadelphia, Pa.
Filter Fabrics Co., 321 Felt Annex, Salt Lake City, Utah. A. L. Genter
Findlay Clay Pot Co., Washington, Pa. Donald W. Ross
Fine Colors Co., 21–29 McBride Ave., Paterson, N. J. Karl Ellwanger
Fisk Rubber Co., Chicopee Falls, Mass.
Fleischmann Co. of Calif., 1236 Minnesota St., San Francisco, Calif. Henry Arnstein
Fleischmann Mfg. Co., Peekskill, N. Y.
Fleming Chemical Co., 1711 Crawford Rd., Cleveland, Ohio
Fletcher Works, Glenwood Ave. and 2d St., Philadelphia, Pa. Leslie Griscom
Flint Kote Co., 88 Pearl St., Boston, Mass. H. C. Platts
Florasynth Laboratories, Inc., 231 Pearl St., New York City. Alexander Katz
Florida Wood Products Co., Jacksonville, Fla. E. B. Smith
Foote Mineral Co., 107 N. 9th St., Philadelphia. H. C. Meyer
Ford Co., The J. B., Wyandotte, Mich. H. R. Browne
Ford Motor Co., Detroit, Mich.
Franco-American Chemical Works, Carlstadt, N. J. Leo Trubek
Franco-Swiss Dyes, Inc., 61 Broadway, New York City
Frank Tea & Spice Co., Cincinnati, Ohio
Fraser Tablet Co., 453 19th St., Brooklyn, N. Y.
Freeport Sulphur Co., 61 Broadway, New York City. Geo. E. Jenks
Fries & Bros., Alex., 312 E. 2d St., Cincinnati, Ohio
Fries & Fries, 1501 W. 6th St., Cincinnati, Ohio. R. C. Fries, G. G. Fries
Fritzsche Bros., 82–84 Beekman St., New York City
Fuller-Lehigh Co., Fullerton, Pa.

Galbraith Chemical Co., 5139 Germantown Ave., Philadelphia, Pa.
Garford Motor Truck Co., Lima, O. Walter Arthur
Gas Oil Co. of Indiana, 1013 Peoples Gas Bldg., Chicago, Ill.
Gazzolo Drug & Chemical Co., 119-123 S. Green St., Chicago, Ill.
Geisenheimer & Co., 134 Cedar St., New York City. Felix Fanderlik
Gemmill & Co , Wm. N,, 142 Queen St., Glasgow, Scotland
General Bakelite Co., 2 Rector St., New York City
General Ceramics Co., 50 Church St., New York City
General Chemical Co., 5 Broad St., New York City
General Electric Co., Cleveland, O. National Lamp Works. Edward P. Hyde
General Electric Co., Lynn, Mass. Edward R. Berry
General Electric Co., Schenectady, N. Y. W. R. Whitney
General Filtration Co., Cutler Bldg., Rochester, N. Y. F. E. Leiby
General Motors Co., Pontiac, Mich.
General Petroleum Corporation, Los Angeles, Cal. E. H. Leslie
General Roofing Mfg. Co., General Office, St. Louis, Mo.
General Supply Co., Market St. and Bertrand Ave., Perth Amboy, N. J. A. L. Ramsay
Genesee Chemical Co., Genesee, Pa.
Genessee Pure Food Co., Le Roy, N. Y.
Geophysical Laboratory, Carnegie Institute, Washington, D. C.
Gibbs Preserving Co., Baltimore, Md.
Gilpin, Langdon & Co., Inc., 300-302 W. Lombard St., Baltimore, Md.
Glidden Co., Cleveland. Ohio. Mr. Waldie
Globe Chemical Co., 1135 Regent Ave., Cincinnati, Ohio. Robert C. Grote
Globe Soap Co., 3d and Walnut Sts., Cincinnati, Ohio
Goheen Mfg. Co., Main St., Warren, Ohio. H. B. Robinson
Goldschmidt Thermit Co., Jersey City, N. J. S. J. Lubowsky
Goodrich Co., B.F., Akron, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Gordon Dryer Corporation, 39 Cortlandt St., New York City. Gordon D. Harris
Graclif Chemical Co., Pomeroy, Ohio. R. C. Lord
Graham, Hinkley & Co., 135 Front St., New York City
Grant Chemical Co., J. C., East St. Louis, Ill.
Grasselli Chemical Co., Cleveland, Ohio
Grasselli Powder Co., Cleveland, O.
Graton & Knight Mfg. Co., Franklin St. Worcester, Mass. F. H. Small
Graver Tank Works, East Chicago, Ind.
Great Western Electrochemical Co., San Francisco, Calif.
Greiner Co., Emil, Fulton and Cliff Sts., New York City. Paul Todtschinder
Guertner Co., Wm., Chicago, Ill.
Gulf Refining Co., Pittsburgh, Pa.
Gulf States Steel Co., Birmingham, Ala.

Hagstoz & Son, T. B., 709 Sansom St., Philadelphia, Pa. Thos. Hurley, Jr.
Halcomb Steel Co., Syracuse, N. Y. George M. Berry
Hall, George D. A., Manchester, England. George D. A. Hall
Hall Van Gorden Co., 1382 W. 9th St., Cleveland, Ohio
Halsey Bros., Co., 30 N. Wabash Ave., Chicago, Ill.
Hamilton-Otto Coke Co., Hamilton, Ohio
Hammersley Mfg. Co., 232 Greenwich St., New York City
Hammond Chemical Works, Inc., 21 Park Row, New York City
Hanovia Chemical & Mfg. Co., Newark, N. J.
Hansen's Laboratory, Inc., Chr., Little Falls, N. Y. Karl J. Monrad
Harbison Walker Refractories Co., Pittsburgh, Pa. R. H. H. Pierce
Hardy, Inc., Chas., 50 Church St., New York City
Harlem Chemical Co., 1357 Park Ave., New York City
Harmer Laboratories Co., 1704 Market St., Philadelphia, Pa.
Harriman Food Research Laboratory, 527 Fifth Ave., New York City
Harrison Works, 35th and Gray's Ferry Rd., Philadelphia, Pa.
Harrison Safety Boiler Works, 17th St. and Alleghany Ave., Philadelphia, Pa. J. D. Yoder
Harshaw, Fuller & Goodwin Co., 100 William St., New York City. Also Cleveland, Ohio
Hartford Laboratory Co., Inc., Hartford, Conn.
Hawaiian Fertilizer Co., Ltd., 14 S. Queen St., Honolulu, Hawaii
Haynes Stellite Co., Kokomo, Ind. M. J. Udy
Hazel Atlas Glass Co., Washington, Pa. A. L. Duval
Heald & Co., Inc., John H., Lynchburg, Va.

Hegeler Zinc Co., Danville, Ill.
Heil Chemical Co., Henry, 210-214 S. Fourth St., St. Louis, Mo.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St., New York City. Jos. Lanz
Heller & Merz Co., 505 Hudson St., New York City
Hemingway, Inc., Frank, 115 Broadway, New York City
Hercules Powder Co., Wilmington, Del. G. M. Norman, C. A. Higgins
Herman & Herman, 6 Church St., New York City. Henry H. Mandle
Herrick-Voigt Chemical Corporation, 1 Liberty St., New York City. Wm. H. Thomas
Hess Steel Corporation, Baltimore, Md. Frank T. Sisco
Heyden Chemical Works, 135 William St., New York City. Jas. S. Branegan
Hill Extract & Flavoring Co., Houston, Texas. B. Hill
Hires Condensed Milk Co., 913 Arch St., Philadelphia, Pa.
Hoffman-LaRoche Chemical Works, 440 Washington St., New York City
Holland Aniline Co., Holland, Mich.
Holland-S . Louis Sugar Co., Decatur, In l.
Holland Aniline Co., Holland, Mich.
Holliday-Kemp Co., 90 William St., New York City
Holliday-Rea[illegible] & Son[illegible], 160 Franklin St., New York City
Hooker & Co., J. L., 314 N. 3d St., Philadelphia, Pa.
Hooker Electrochemical Co., 40 Wall St., New York City
Hord Color Products Co., Sandusky, Ohio. Robert M. Cole
Horlick, William, Jr., Horlick's Malted Milk Co., Racine, Wis.
Horn Co., A. C., Horn Bldg., Long Island City, N. Y. A. C. Horn, John Manson
Horn Hollander Co., Horn Bldg., Long Island City, N. Y. John Manson
Hoskins Mfg. Co., Detroit, Mich. J. M. Lahr
Houghton & Co., E. F., Third, American and Somerset Sts., Philadelphia, Pa. Geo. W. Pressell
Hoyt Metal Co., Boatmen's Bank Bldg., St. Louis, Mo.
Hub Dyestuff & Chemical Co., 595 S. 7th St., South Boston, Mass.
Huff Electrostatic Separator Co., 60 Indiana St., Boston Mass. F. R. Johnson
Hungerford & Terry, Inc., 120 Milk St., Boston, Mass.
Hunter Dry Kiln Co., 26th and Cornell Ave., Indianapolis, Ind. Harry Hunter, A. B. Stonex
Huron Milling Co., Harbor Beach, Mich.
Hurty-Peck & Co., 222-224 E. Ohio St., Indianapolis, Ind.
Hydraulic Press Mfg. Co., Mt. Gilead, Ohio. F. E. Stevenson

Illinois Glass Co., Alton, Ill. Chas. Levis
Illinois Steel Co., Chicago, Ill. William Brady
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
Imperial Color Works, Inc., Glens Falls, N. Y. F. J. Wich
Import Chemical Co., 162 First St., Jersey City, N. J. F. S. Miles
Improved Appliance Co., 413-19 Kent Ave., Brooklyn, N. Y.
Independent Chemical Co., 72 Front St., New York City
Independent Salt Co., 44 Whitehall St., New York City. Chas. J. Werner
Industrial Chemical Co., 200 Fifth Ave., New York City. Leonard Wickenden
Industrial Chemical Co., Inc., Box 1288, Providence, R. I. Thomas H. Roberts
Industrial Works, Bay City, Mich. H. C. Campbell
Indiana Coke & Gas Co., Terre Haute, Ind.
Inland Steel Co., Chicago, Ill.
Innis, Speiden & Co., Inc., 40 Cliff St., New York City
International Agricultural Corporation, 165 Broadway, New York City
International Molybdenum Co., Orilla, Ont., Canada
International Nickel Co., 43 Exchange Pl., New York City. John F. Thompson
International Oxygen Co., 796 Frelinghuysen Ave., Newark, N. J. Edward O. Benjamin
International Paper Co., 30 Broad St., New York City
International Silver Co., Meriden, Conn.
Interstate Chemical Co., 667 Garfield Ave., Jersey City, N. J. Paul T. Krause
Isco Chemical Co., Inc., 46 Cliff St., New York City

Jacksonville Chemical Mfg. Co., Jacksonville, Fla.
Jaeck Co., Louis, 257 Front St., New York City
Jaenecke-Ault Co., Ave. B and Wright St., Newark, N. J. Warren D. Yearsley
Jarecki Chemical Co., Cincinnati, Ohio

Jeannette Glass Co., Jeannette, Pa. A. W. Crownover.
Jeffry Mfg. Co., Columbus, Ohio. C. C. Clevenger
Jessup & Moore Paper Co., Philadelphia, Pa.
Jobbins, Inc., Wm. F., 923 N. Lake St., Aurora, Ill. F. H. Jobbins
Johnson & Johnson, New Brunswick, N. J.
Johnson Co., H. A., 221 State St., Boston, Mass.
Johnson Co., John, 37th St. and 2d Ave. Brooklyn, N. Y. J. Homer Stover
Joslin-Schmidt Co., The, 3223 Spring Grove Ave., Cincinnati, Ohio. F. A. Nantz
Justrite Mfg. Co., 2061 Southport Ave., Chicago, Ill. O. W. Anderson

Kalbfleish Corporation, 31 Union Sq. West, New York City. Plant: Erie, Pa. Chas. W. Moore
Kelly Springfield Tire Co., Broadway and 57th St., New York City
Kendall Mfg. Co., Providence, R. I.
Kestner Evaporator Co., Philadelphia, Pa. J. Resines
Kettle River Co., Madison, Ill. Harry W. Foster
Keystone Steel & Wire Co., Peoria, Ill. Julian Schueler
King & Co., E. & F., 367–369 Atlantic St., Boston, Mass.
Kingsbury, H. P. D., Redlands, Cal. H. P. D. Kingsbury
King Chemical Co., Bound Brook, N. J.
Kirk & Co., J. S., 106 E. Austin Ave., Chicago, Ill.
Kistler, Lesh & Co., Morganton, N. C. J. S. Rogers
Klipstein & Co., A., 644 Greenwich St., New York City. J. Machsatz
Knowles-Bradley Co., 88 Wall St., New York City. Stephen Bistran
Kohnstamm & Co., H., 87 Park Pl., New York City. L. S. Kohnstamm
Kolynos Co., 130 Bristol St., New Haven, Conn.
Koven & Bro., L. O., 154 Ogden Ave., Jersey City, N. J. G. B. Furman
Koppers Co., H., 511 Wood St., First National Bank Bldg., Pittsburgh, Pa. F. W. Sperr, Jr.
Kress & Owen Co., 361 Pearl St., New York City
Kullman-Salz & Co., Inc., Benicia, Cal., and Wells Fargo Express Bldg., San Francisco, Cal.
Kuttroff, Pickhardt & Co., Inc., 128 Duane St., New York City. A. Lendle
La Belle Iron Works, Steubenville, Ohio
Laboratory Materials Co., 7404–6 Calumet Ave., Chicago, Ill.
Lackawanna Chemical Co., Olean, N. Y. E. E. Currier
Lackawanna Steel Co., Lackawanna, N. Y.
Laclede Gas Light Co., St. Louis, Mo.
Laclede Christy Clay Products Co., 1673 Railway Exchange Bldg., St. Louis, Mo. C. W. Berry
Lakeland Phosphate Co., Lakeland, Fla. C. D. McDowall
Lakewood Chemical Co., Citizens Bldg., Cleveland, Ohio
Lamar & Bros., Inc., John S., 80 Maiden Lane, New York City
L. & R. Organic Products Co., Inc., 8 Gold St., New York City
Lambert Pharmacal Co., 2101 Locust St., St. Louis, Mo.
Lamie Chemical Co., Huntington W. Va.
Lamson & Bro., Inc., John S., 80 Maiden Lane, New York City. M. Melick
Latimer Chemical Co., Grand Junction, Colo. H. B. Goodwin
Lautz Bros. & Co., 44 Hanover St., Buffalo, N. Y.
Lavino & Co., E. J., Bullitt Bldg., Philadelphia, Pa. E. J. Lavine
Leavitt & Co., C. W., 30 Church St., New York City. W. F. F. Leavitt
Leeds & Northrup Co., Philadelphia, Pa. Irving B. Smith, Research Director
Lehn & Fink, Inc., 120 William St., New York City. William H. Gesell
Lenning & Co., Charles, 112 S. Front St., Philadelphia, Pa.
Lennox Chemical Co., 1201 E. 55th St., Cleveland, Ohio. A. S. Allen
Lever Bros., Co., Cambridge, Mass.
Larkin Co., 680 Seneca St., Buffalo, N. Y.
Lewis Mfg. Co., F. J., 2500 S. Robey St., Chicago, Ill. W. B. Murphy, G. Heyl (Control)
Lewis, John D., 1209 Turks Head Bldg. Providence, R. I. Oliver L. Danforth
Lieber & Co., H., Inc., 14 Platt St., New York City
Lignum Chemical Works, Brooklyn, N. Y.
Lindsay Light Co., 161 E. Grand Ave., Chicago, Ill. O. N. Berndt
Linton Gas Co., Linton, Ind.
Lister Agricultural Chemical Works, Newark, N. J.
Little, Inc., Arthur D., 93 Broad St., Boston, Mass.
Louisville Soap Co., 2440 Floyd St., Louisville, Ky.
Lower California Chemical Co., Los Angeles, Cal.
Lucas & Co., Inc., John, Gibbsboro, N. J.

Lungwitz, Emil E.. 30 Church St., New York City
Lunkenheimer Co., Cincinnati, Ohio George K. Elliott

MacAndrews & Forbes Co., 3rd St. and Jefferson Ave., Camden, N. J.
Madderton & Co., Lyd., Loughton, Essex, England. C. S. Mummery
Magma Copper Co., Superior, Ariz. Howard Willey
Magnetic Mfg. Co., 764 Windlake Ave., Milwaukee, Wis. J. P. Butler
Magnolia Metal Co., 115 Bank St., New York City. E. C. Miller, Jr
Mallinckrodt Chemical Works, 3600 N. 2d St., St. Louis, Mo.
Mallons & Co., Chester, N. Y. W. J. Beer
Maltbie Chemical Co., 250 High St., Newark, N. J.
Malt-Diastase Co., 79 Wall St., New York City. L. V. Foelkersamb
Manville Co., Providence, R. I.
Marden, Orth & Hastings Corp., 61 Broadway, New York City. Ralph S. Doubleday
Marx & Rawolle. Inc., 100 William St., A. C. Langmuir. New York City: Factory: 9 Van Brunt St., Brooklyn, N. Y.
Mathieson Alkali Works, Inc., Saltville, Va.; Niagara Falls, N. Y. R. E. Gegenheimer
May & Co., Inc., Frank L., 99 John St., New York City
McCord Mfg. Co., 2587-2637 E. Grand Blvd., Detroit, Mich. J. D. Harris
McCormick & Co., Baltimore, Md.
McKean Chemical Co., Williamsport, Pa.
McKesson & Robbins, 91 Fulton St., New York City
McLaughlin Chemical Works, Inc., 1715 5th St., S. E., Minneapolis, Minn.
Meade & Co., Richard K., Baltimore, Md. Richard K. Meade.
Merck & Co., 45 Park Pl., New York City: Factory, Rahway, N. J.
Merrell-Soule Co., Syracuse, N. Y.
Merrill Metallurgical Co., 121 Second St., San Francisco, Cal.
Merrimac Chemical Co., 40 Central St., Boston, Mass.
Metal & Thermit Corp., 120 Broadway, New York City
Metal Products Co., 100 S. Jefferson St., Chicago, Ill. Dr. Kramer
Meth-O-Lene Co., Inc., 81 Fulton St., New York City
Metz Laboratories, H. A., 122 Hudson St., New York City
Meyer & Sons, J., 480 Bourse Bldg., Philadelphia, Pa. Fred. L. Meyer
Miami Paper Co., West Carrollton, O.
Michigan Alkali Co., Ford Bldg., Detroit, Mich. Herbert R. Browne
Michigan Ammonia Works, Meldrum St., Detroit, Mich.
Michigan Carbon Works, Carbon and Forman Aves., Detroit, Mich.
Michigan Chemical Co., Bay City, Mich.
Michigan Drug Co., Detroit, Mich.
Michigan Electrochemical Co., N. State St., Menominee, Mich. A. R. White
Middlesex Aniline Co., Inc., 149 Broadway, New York City. Jas. Baradin
Midland Chemical Co., 80 E. Jackson Blvd., Chicago, Ill. J. C. Burdette
Midvale Steel & Ordnance Co., Widener Bldg., Philadelphia, Pa.
Milligan & Higgins Glue Co., 222 Front St., New York City
Milwaukee Coke & Gas Co., Milwaukee, Wis.
Milwaukee Locomotive Mfg. Co., Milwaukee, Wis. J. R. Houston
Miner-Edgar Co., 52-62 Warren St., Brooklyn, N. Y. Harold W. Haines
Minnesota By-Product Coke Co., St. Paul, Minn.
Minnestoa Steel Co., Duluth, Minn.
Missouri Chemical Works, Cincinnati, Ohio
Mojonnier Bros. Co., 833 W. Jackson Blvd., Chicago, Ill. F. Mojonnier
Monahan Antiseptic Co., 166-172 Curtis St., Chicago, Ill.
Monarch Chemical Co., 141 Broadway, New York City
Monmouth Chemical Co., Keyport, N. J., Wall St., New York City. E. Schwartz
Monroe Chemical Co., Fairport, N. Y.
Monroe Color & Chemical Co., Quincy, Ill. H. E. Kiefer
Monsanto Chemical Works, 1800 S. Second St., St. Louis, Mo.
Montcalm Chemical Works, Indianapolis, Ind.
Mont Color & Chemical Works, Monticello, N. Y.
Montclair Water Co., Paterson, N. J.
Montreal Power & Water Co., 11 Place d'Armes, Montreal, Canada
Moore Bros. Co., Elizabeth, N. J.
Morrill & Co., Geo. H., Norwood, Mass.
Morris & Co., Chicago, Ill.
Morris Machine Works, Baldwinsville, N. Y. A. B. Davis
Mosso Laboratories, C. A., 2253 Warren Ave., Chicago, Ill.
Mott Iron Works, The J. L., 118 Fifth Ave., New York City

Mountain Copper Co., Ltd., 332 Pine St., San Francisco, Cal.
Mt. Union Tanning & Extract Co., Mt. Union, Pa. J. H. Yocum, B. D. Westernfelder
Mulford & Co., H. K., Philadelphia, Pa.
Munning Loeb Co., Matawan, N. J. C. F. Toole.
Mutual Chemical Co. of America, 55 John St., New York City

National Ammonia Co., St. Louis, Mo., Philadelphia, Pa., New York, N. Y. H. Danmubaum
National Ammonia Co. of Pa., Del. Ave. and Vankirk St., Frankford, Philadelphia, Pa.
National Aniline & Chemical Co., 21 Burling Slip, New York City
National Biscuit Co., New York City
National Brake & Electric Co., Milwaukee, Wis. J. R. Houston
National Carbide Corporation, Bluefield, W. Va.
National Carbon Co., Cleveland, Ohio
National Chemical Co., Syracuse, N. Y.
National Electrolytic Co., Niagara Falls, N. Y.
National Gum & Mica Co., 59th St. and 11th Ave., New York City. J. Alexander.
National Lamp Works of General Electric Co., E. 152d St., Cleveland, Ohio
National Lead Co., 111 Broadway, New York City. Gustave W. Thompson
National Oil Products Co., Harrison, N. J. R. Boekringer
National Tube Co., Pittsburgh, Pa.
National Vaccine & Anti-Toxin Laboratories, Washington, D. C.
National Zinc Co., 61 Broadway, New York City Works: Kansas City, Mo.
Natural Carbonic Gas Co., McClellan, N. J. Stuart Lindsley
Naugatuck Chemical Works, Inc., Naugatuck, Conn. C. E. Ott
N. & G. Taylor Co., Inc., 300 Chestnut St., Philadelphia, Pa.
Neponset Color Co., Hyde Park, Boston, Mass.
New Brunswick Chemical Co., New Brunswick, N. J.
New England Confectionery Co., 253 Summer St., Boston, Mass.
New England Fuel & Transportation Co., 111 Devonshire St., Boston, Mass. A. B. Way
New Haven Gas Light Co., New Haven, Conn.
New Jersey Zinc Co., 55 Wall St., New York City. J. A. Singmaster, Mgr. Tech. Dept.
New Orleans Acid & Fertilizer Co., Gretna, La.
New Process Metals Co., New York City.
Newport Chemical Works, Inc., First National Bank Bldg., Milwaukee, Wis. Plant: Carrollville, Wis. M. A. Ceresole, Chemical Director
Newport Turpentine & Rosin Co., Pensacola, Fla. W. B. Logan
New York Color & Chemical Co., Inc., 212 Pearl St., New York City
New York Quinine & Chemical Works, 114 William St., New York City
New York Sugar Trade Laboratory, 80 South St., New York City.
Newton Chemical Co., Olean, N. Y.
Newsholrine, G. T. W., Ltd., Sheffield, England
Niagara Alkali Co., Niagara Falls, N. Y. J. R. MacMillan
Niagara Coke Corporation, 6 Church St., New York City
Niagara Electrochemical Co., 100 William St., New York City
Niagara Smelting Corporation, Niagara Falls, N. Y.
Nichols Copper Co., 25 Broad St., New York City. W. C. Ferguson
Nitrated Chemicals Co., Kingston, N. Y.
Noble Electric Steel Co., Heroult, Calif. F. W. Bunyan
North American Chemical Co., Bay City, Mich.
North Shore Gas Co., Waukegan, Ill.
Northern Aluminum Co., Oliver Bldg., Pittsburgh, Pa.
Northwest Magnesite Co., Chewelah, Wash. C. D. Dolman
Northwestern Chemical Co., Marietta, Ohio. F. R. Hall
Northwestern Iron Co., Milwaukee, Wis.
Northwestern States Portland Cement Co., Mason City, Iowa
Nortmann Duffke Fdy. Co., 1210 27th Ave., Milwaukee, Wis. E. B. Lemon
Norton Co., New Bond St., Worcester, Mass.
Norton Laboratories, 296 Madison Ave., New York City. J. B. Neal
Norwich Chemical Co., East Smethport, Pa.
Norwich Pharmacal Co., Norwich, N, Y. J. P. Snyder

Oakes Mfg. Co., Long Island City, N. Y.
Oakland Chemical Co., 10 Astor Pl., New York, N. Y.
Obex Co., The, Marietta, Ohio
O'Brien Varnish Co., Washington and Johnson Sts., South Bend, Ind. S. J. McGrath
Ohio Chemical & Mfg. Co., 1177 Marquette Rd., Cleveland, Ohio

Ohio Match Co., Wadsworth, O. Hugo Schapiro
Ohio Salt Co., Wadsworth, Ohio. Walter Laib
Oldbory Electrochemical Co., Niagara Falls, N. Y. F. A. Lidbury
Oliver Chemical Co., Mount Eden, Cal.
Organic Products Corporation, 469 State St., New York City
Otto Chemical Co., Burrows, McKean Co., Penn.
Oxford Paper Co., 200 Fifth Ave., New York City. Plant: Rumford, Me. M. L. Griffin

Pacific Chemical Co., Los Angeles, Cal.
Pacific Coast Borax Co., 100 William St., New York City
Pacific Coast Coal Co., Reuton, Wash.
Pacific Electro Metals Co., 415 Balboa Bldg., San Francisco, Cal.
Palo Co., 90-94 Maiden Lane, New York City. C. T. Thies
Pantasote Leather Co., Passaic, N. J.
Parke, Davis & Co., Detroit, Mich. John M. Francis
Patch Co., E. L., Montrate Ave., Stoneham, Mass.
Paxson Co., J. W., 1021 N. Delaware Ave., Philadelphia, Pa. Walter C. Platt
Peacock Chemical Co., 112 N. 2d St., St. Louis, Mo.
Pease Co., C. F., 219 W. Institute Pl., Chicago, Ill. E. V. Manuel
Peerless Chemical Co., 506 W. 42d St., New York City
Peerless Color Co., Inc., Bound Brook, N. J. R. W. Cornelison
Penn Chemical Works, 1322 Washington Ave., Philadelphia, Pa.
Pennsylvania Color Mfg. Co., 248 Chestnut St., Philadelphia, Pa.
Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia, Pa.
Pennsylvania Smelting Co., First National Bank Bldg., Pittsburgh, Pa.
Pennsylvania Wire Glass Co., 914 Pennsylvania Bldg., Philadelphia, Pa.
Perfenol Products Co., Inc., 39 W. 38th St., New York City
Permutit Co., 440 Fourth Ave., New York City. T. R. Duggan
Perolin Co. of America, Woolworth Bldg., New York City
Pfaudler Co., The, Rochester, N. Y. Wm. F. Zimmerli
Pfeiffer Chemical Co., 500 N. Commercial St., St. Louis, Mo.
Pfister & Vogel Leather Co., Milwaukee, Wis.
Pfizer & Co., Inc., Charles, 81 Maiden Lane, New York City
Phelps Dodge Corporation, 99 John St., New York City. G. D. Van Arsdale
Philadelphia Drying Machinery Co., 6721 Germantown Ave., Philadelphia, Pa.
Philadelphia Quartz Co., 121 S. Third St., Philadelphia, Pa. James G. Vail
Philadelphia Suburban Gas & Electric Co., Chester, Pa.
Phoenix Chemical Co, Ltd., Accrington, England. H. Foxen
Phosphorous Compounds Co., Niagara Falls, N. Y.
Physician's Laboratory Supply Co., 121 N. Wabash Ave., Chicago, Ill. Frank E. Challis
Pittsburgh By-Product Coke Co., Pittsburgh, Pa.
Pittsburgh Electro-Galvanizing Co., Union Bank Bldg., Pittsburgh, Pa.
Pittsburgh Metallurgical Co., Montour Junction, Pa.
Pittsburgh Plate Glass Co., Pittsburgh, Pa. Frederick Gelstharp
Pompeian Co., The, Coca Cola Bldg., Baltimore, Md.
Portland Oxygen & Hydrogen Co., Portland, Oregan
Potter Drug & Chemical Corporation, 135 Columbus Ave., Boston, Mass.
Powers-Weightman-Rosengarten Co., Philadelphia, Pa.
Precision Instrument Co., Fort and Wayne Sts., Detroit, Mich. Wm. L. De Baufre
Primos Chemical Co., Primos, Pa.
Process Engineers, Ltd., 20 McGill St., Montreal, Canada
Proctor & Gamble Distributing Co., Cincinnati, Ohio
Provident Chemical Works, 8011 Idaho St., St. Louis, Mo. J. T. Meckstroth
Provost Engineering Corporation, 220 Broadway, New York City. Edward J. Beach
Pumpherson Oil Co., Ltd., The, Glasgow, Scotland. E. M. Bailey
Pyrites Co., Roanoke, Va. John E. Haig
Pyrolectric Instrument Co., 636 E. State St., Trenton, N. J. H. L. Saums

Quabaug Rubber Co., N. Brookfield, Mass.
Quaker City Rubber Co., 629 Market St., Philadelphia, Pa.

Radium Luminous Material Corporation, 55 Liberty St., New York City. W. S. A. Sochocky
Rahway Coal Tar Products Co., 45 Park Place, New York City

Rare Metal Products Co., Cortland St., Belleville, N. J. F. W. Sehl
Raritan Copper Works, Perth Amboy, N. J.
Raymond Lead Co., 735 S. Washtenaw Ave., Chicago, Ill.
Reade Bros. & Co., Ltd., Wolverhampton, England. T. H. Reade
Reardon Glue Mfg. Co., St. Louis, Mo.
Rector Chemical Co., 2 Rector St., New York City
Redmanol Chemical Products Co., 636 W. 22d St., Chicago, Ill. F. P. Brock
Reliance Aniline & Chemical Co., 100 Broadway, New York City. Marcus J. Fessler
Rendrock Powder Co., 106 Wall St., New York City, N. Y. E. Schwarz
Republic Carbon Co., Niagara Falls, N. Y.
Republic Chemical Co., Inc., Nevill Island, Pittsburgh, Pa.
Republic Flow Meters Co., 565 W. Washington Blvd., Chicago, Ill. J. A. Obermaier
Republic Iron & Steel Co., Youngstown, Ohio
Research Corporation, 63 Wall St., New York City
Research Laboratory of Chicago, 467 E. Ontario St., Chicago, Ill. M. O. Reiche
Richards & Co., Inc., 200 Causeway St., Boston, Mass. John A. West
Richmond Guano Co., 705 Travelers Bldg., Richmond, Va.
Riordan Pulp & Paper Co., Ltd., Montreal, Canada
River Furnace Co., Cleveland, Ohio
Riverside Acid Works, Warren, Pa. M. B. Crowe
Riverside Metal Co., Riverside, N. J.
Robinson & Co., H. F., Manchester, England
Rock County Sugar Co., Janesville, Wis. C. O. Stewart
Roessler & Hasslacher Chemical Co., Perth Amboy, N. J. M. J. Brown
Roessler & Hasslacher Co., 100 William St., New York City
Rogers & Hubbard Co., Middletown, Conn.
Röhn & Haas, 40 North Fork Ct., Philadelphia, Pa.
Roller-Smith Co., 233 Broadway, New York City
Rollin Chemical Co., Inc., Charleston, W. Va. James B. Pierce, Jr.
Rome Soap Mfg. Co., Rome, N. Y.
Rosentwist & Gorner, 26 India Sq., Boston, Mass. Edward A. Wiessner
Rossville Co., Lawrenceburg, Ind.
Roth Co., Box 57, Denver, Colo. J. P. Roth, Jr.
Royal Crown Soaps, Ltd., Winnipeg, Canada
Royster Guano Co., F. S., Norfolk, Va.
Rueckheim Bros. & Eckstein, Peoria and Harrison Sts., Chicago, Ill.
Rumford Chemical Works, Providence, R. I. A. H. Fiske
Russia Cement Co., Essex Ave., Gloucester, Mass.
Rust Resisting Black Finish Co., Bridgeport, Conn.

Salt Lake Chemical Co., Burmester, Utah. F. V. D. Cruser
Sandoz Chemical Works. 60 Fabrikstrasse, Basle, Switzerland
Sargent Steam Meter Co., 2835 Armitage Ave., Chicago, Ill.
Sauer Co., C. F., Richmond, Va. C. F. Sauer
Schell Chemical Co., Inc., 56 Pine St., New York City. H. J. Daiguarlt
Schieren Co., Chas. A., New York City
Scientific Instrument & Electrical Machine Co., 500 S. York St., Mechanicsburg, Pa. W. W. Strong
Scientific Materials Co., 711-719 Forbes St., Pittsburgh, Pa. W. T. Murdock
Scientific Utilities Co., Inc., 84 E. 10th St., New York City. George Grunberg
Scott & Co., Ernest, P. O. Box 259, Fall River, Mass. H. Austin
Scovill Mfg. Co., Waterbury, Conn. Wm. B. Price
Seaboard By-Product Coke Co., Jersey City, N. J.
Sears, Roebuck & Co., Chicago, Ill.
Seattle Lighting Co., Seattle, Wash.
Segal & Co., Inc., George H., 95 William St., New York City
Sellers & Co., William, 1600 Hamilton St., Philadelphia, Pa.
Semet-Solvay Co., Syracuse, N. Y.
Sethness Co., 718 N. Curtis St., Chicago, Ill.
Seydel Mfg. Co., Forrest and Halliday Sts., Jersey City, N. J. R. W. Harris
Sharp & Dohme, Howard and Pratt Sts., Baltimore, Md.
Sharp, Ltd., J. B. & W. R., Edenfield, England
Sharples Specialty Co., West Chester, Pa. Eugene E. Ayres, Jr.
Sherwin Williams Co., Cleveland, Ohio
Shinola Co., 8-28 Jay St., Rochester, N. Y.
Shore Instrument & Mfg. Co., 555 W. 22d St., New York City
Shriver & Co., T., Harrison, N. J.

Simeon & Elting, 93 Nassau St., New York City
Sinclair & Valentine Co., 611 W. 119th St., New York City. J. S. Klein
Sirch, C. W., 126 W. 3d St., Los Angeles, Cal.
Sloan & Russell, Inc., 132 Nassau St., New York City. E. Taylor
Smidth & Co., F. L., 50 Church St., New York City
Smith, Kline & French Co., 429–35 Arch St., Philadelphia, Pa.
Smith Co., Werner G., Cleveland, Ohio. Wm. Collette
Smith Gas Engineering Co., Dayton, Ohio. Thornton G. Plummer
Snyder Electric Furnace Co., 53 W. Jackson Blvd., Chicago, Ill.
Sociedad Anónima Monegal, Barcelona, Spain. New York City: Bichels & Techow, 98 Maiden Lane
Solvay Process Co., Syracuse, N. Y. John D. Pennock; Plant: Detroit, Mich. A. F. Shattuck
Sommers & Sons Co., Galena and 31st Sts., Milwaukee, Wis.
Southern Cotton Oil Co., 24 Broad St., New York City
Southern Ferro Alloys Co., Chattanooga, Tenn. George L. Davison
Southern Fertilizer & Chemical Co., Savannah, Ga.
Southern Manganese Corporation, Birmingham, Ala. A. B. Gerber
Southern Oil & Chemical Co., Savannah, Ga. C. M. Maclean
Special Chemicals Co., Inc., Highland Park, Ill. R. E. Rindfusz, Consulting Chemist
Spence & Sons, Ltd., Peter, Manchester, England
Spencer Lens Co., 440 Niagara St., Buffalo, N. Y. Thomas Browne
Sperry & Co., D. R., Batavia, Ill. D. R. Sperry
Spreckels Sugar Co., Spreckels, Cal.
Squibb & Sons, E. R., 80 Beekman St., New York City. F. W. Nitardy
Stamford Mfg. Co., 82 Wall St., New York City
Standard Asphalt & Refining Co., 208 S. La Salle St., Chicago, Ill.
Standard Chemical Co., foot of W. 5th St., Bayonne, N. J. Martin Szamatolski
Standard Chemical Co., Canonsburg, Pa. K. C. Nicholson
Standard Chemical Mfg. Co., Omaha, Neb.
Standard Chemical Co., Pittsburgh, Pa.
Standard Chemical Co., Tacoma, Wash. P. Van Horst
Standard Color Works, 55 Liberty St., New York City
Standard Distilling & Distributing Co., 27 William St., New York City
Standard Glue Co., 455 Broadway, New York City
Standard Oil Co., 26 Broadway, New York City
Standard Tablet Co., Ltd., Nove, Sussex, England. H. W. Kilby
Star Brass Works, 3114–22 Carroll Ave., Chicago, Ill.
St. Lawrence Talc Co., 7 E. 42d St., New York City
Stanley Aniline Chemical Works, Lock Haven, Pa.
Stanley, John T., 650 W. 30th St., New York City
Stauffer Chemical Co., Chauncey, N. Y., Monogahela City, N. Y.
Stoelting Co., C. H., 3037–47 Carroll Ave., Chicago, Ill.
Stokes Machine Co., F. J., 17th and Cambria Sts., Philadelphia, Pa.
Stone & Webster, 147 Milk St., Boston, Mass. Leonard B. Buchanan
Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St., Chicago, Ill.
Stroud & Co., E. H., 928 Fullerton Ave., Chicago, Ill.
Stuart & Co., C. H., Newark, N. J. F. J. Kopp
Stobner Chemical Works, 1665 Weeks Ave., New York City. A. P. Sachs
Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill. F. H. Kingdon
Superior Products Co., Hartman Bldg., Columbus, Ohio
Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill. F. H. Kingdon, Claremont, W. Va.
Suzuki & Co., 220 Broadway, New York City
Swan Myers & Co., Indianapolis, Ind.
Swenson Evaporator Co., 945 Monadnuck Bldg., Chicago, Ill.
Swift & Co., Chicago, Ill. W. D. Richardson
Synfleur Scientific Laboratories, Monticello, N. Y.
Synthetic Products Co., North Towanda, N. Y.

Tacoma Smelting Co., Tacoma, Wash. O. C. Zischkau
Tagliabue Mfg. Co., C. J., 18–88 Thirty-third St., Brooklyn, N. Y. A. Roesch
Tartar Chemical Co., 135 William St., New York City
Taylor Chemical Co., Penn Yan, N. Y. C. E. Taylor
Taylor Co., Inc., N. & G., 300 Chestnut St., Philadelphia, Pa.

Taylor Instrument Cos., 95 Ames St., Rochester, N. Y.
Tennessee Chemical Co., Nashville, Tenn.
Tennessee Coal, Iron & R. R. Co., Birmingham, Ala. James R. Harris
Texas Co., 17 Battery Pl., New York City
Texas Gulf Sulphur Co., 50 E. 42d St., New York City. Chas. Biesel
Thiele Laboratories Co., Hartman Bldg., Columbus, Ohio
Thwing Instrument Co., 3333 Lancaster Ave., Philadelphia, Pa. C. B. Thwing
Timken Roller Bearing Co., Canton, O.
Tionesta Valley Chemical Co., Tionesta, Pa.
Titanium Alloy Mfg. Co., Niagara Falls, N. Y. L. E. Barton
Toch Bros., 320 Fifth Ave., New York City. Maximilian Toch
Toledo Furnace Co., Toledo, Ohio
Toledo Pharmacal Co., 224–226–228 Jackson Ave., Toledo, Ohio
Tolhurst Machine Works, Troy, N. Y.
Trus-Con Laboratories, Detroit, Mich. Lawrence E. Peterson
Tyler Co., W. S., Cleveland, Ohio. Fred S. Curtis

Uehling Instrument Co., 71 Broadway, New York City
Union Bag & Paper Co., Chicago, Ill.
Union Carbide Co., Niagara Falls, N. Y.
Union Chemical & Refining Co., Johnstown, Pa.
Union Dye & Chemical Co., 2 Rector St., New York City. Works: Kingsport, Tenn.
Union Distilling Co., 3rd and Race Sts., Cincinnati, Ohio
Union Oil Co. of California, Oleum, Cal.
Union Sugar Co., Home Office, 310 Sansome St., San Francisco, Cal.
United Alloy Steel Corporation, Canton, O.
United Dyes Corporation, Perth Amboy, N. J.
United Filters Corporation, 65 Broadway, New York City. C. B. Oliver
United Indigo & Chemical Co., Ltd., Boston, Mass.
United Furnace Co., Cleveland, Ohio
United Gas Improvement Co., Philadelphia, Pa. W. H. Fulweiler
United Lead Co., 111 Broadway, New York City
United Lined Tube & Valve Co., Boston, Mass.
United States Asphalt Refining Co., E. Brooklyn, Baltimore, Md.
United States Gypsum Co., 205 W. Monroe St., Chicago, Ill.
United States Industrial Alcohol Co., Pine and Ferdinand Sts., New Orleans, La.
United States Metals Refining Co., 120 Broadway, New Yord City; Plant: Chrome, N. J. H. D. Greenwood
United States Nickel Co., New Brunswick, N. J.
United States Reduction & Refining Co., Colorado Springs, Colo.
United States Silica Co., 122 S. Michigan Ave., Chicago, Ill. Chas. J. Luck
United States Smelting Co., 120 Broadway, New York City
United States Smelting, Refining & Mining Co., Boston, Mass.
United States Steel Co., New York City
United States Steel Corporation, 71 Broadway, New York City
United States Stoneware Co., Akron, Ohio
United States Tire Co., Broadway and 58th St., New York City
United States Varnish Co., 41 Park Row, New York City
Upjohn Co., Kalamazoo, Mich. F. W. Heyl
Utah Potash Co., Trenton, N. J. H. J. Ditiviller.

Vacuum Oil Co., 61 Broadway, New York City. F. R. Baxter
Vanadium Alloys Steel Co., Latrobe, Pa. Myron A. Frost
Van Schaack & Sons, Peter, 114–118 W. Lake St., Chicago, Ill. Thos. Cunningham
Van Schaack Bros. Chemical Works, Avondale, Chicago, Ill. R. H. Van Schaack, Jr.
Van Tilburg Oil Co., 2424–28 University Ave., S. E., Minneapolis, Minn.
Verona Chemical Co., North Newark, N. J.
Victor Chemical Works, 1805 Fisher Bldg., Chicago, Ill. Factory: Chicago Heights, Ill. R. A. Holbrook
Victor Talking Machine Co., Camden, N. J. Edwin F. Hicks
Victors, Ltd., Manchester, England. A J. Pennington
Vilter Mfg. Co., 824 Clinton St., Milwaukee, Wis. J. E. Bock
Virginia-Carolina Chemical Co., Richmond, Va. F. B. Carpenter
Virginia Consolidated Chemical Corporation, 100 Broadway, New York City
Virginia Products Corporation, 3rd Ave. and 8th St., Canton, Baltimore, Md.
Virginia Red Oil Products Corporation, Baltimore, Md. J. J. R. Bristow

Vitro Mfg. Co., 720 Bessemer Bldg., Pittsburgh, Pa.
Vitrolite Co., 133 W. Washington St., Chicago. D. S. Beebe
Vulcan Detinning Col., Sewaren, N. J.

Wabash Refining Co., Robinson, Ill.
Walker Chemical Works, 1010 Camp St., New Orleans, La.
Walsh & Co., James, Lawrenceburg, Ind. W. P. O'Shaughnessy
Waltham Chemical Co., Waltham, Mass.
Warner Chemical Co., 52 Vanderbilt Ave., New York City
Warner Klipstein Chemical Co., Inc., 52 Vanderbilt Ave.
Warren Chemical Product Co., Warren, Pa.
Warren Co., S. D., Boston, Mass. Works: Westbrook, Me.
Welch Mfg. Co., W. M., 1516 Orleans St., Chicago, Ill.
Welsbach Light Co., Gloucester City, N. J. Harlan S. Miner
Werk Co., The M., St. Barnard, Ohio
Werner & Pfleiderer Co., Inc., Saginaw, Mich.
West Coast Chemical Co., 6961 Woodlawn Ave., Seattle, Wash.
West Disinfecting Co., 411 Fifth Ave., New York City. W. Dryfu
Western Aniline Products Co., 1160 Old Colony Bldg., Chicago, Ill. Works: Hammond, Ind. T. C. McCalla
Western Chemical Mfg. Co., W. Byaud and Osage Sts., Denver, Colo.
Western Grain & Sugar Products Co., Agnew, Cal.
Western Reduction Co., Portland, Oregon
Western Stoneware Co., Monmouth, Ill.
Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. C. E. Skinner
Westinghouse Lamp Co., Bloomfield, N. J. Duncan McRae
Weston Electrical Instrument Co., Newark, N. J. Wm. Goodwin, Jr
West Virginia Pulp & Paper Co., 200 Fifth Ave., New York City. Works: Davis, W. Va. Noel Statham, Mgr. Chem. Dept.
*Weymouth, Ralph W., 111 Broadway, New York City. Philip Kim
Whalen Pulp and Paper Mills, Ltd., Vancouver, Canada. E. C. De Giovellina
Wheeler Reynolds & Stauffer, 624 California St., San Francisco, Cal. E. C. Missbach
Whitall, Tatum Co., Philadelphia, Pa. G. E. Barton
Whitehouse, Lewington, West Bromwich, England. P. H. Whitehouse
Whitlock Coil Pipe Co., Hartford, Conn. W. C. Beekley
Wiarda & Co., J. C., 273 Greene St., Brooklyn, N. Y. Wm. S. Tonry
Wilckes, Martin, Wilckes Co., 135 William St., New York City
Willcocks & Co., Ltd., H. S., Manchester, England
Will & Baumer Co., Syracuse, N. Y.
Williamsburg Chemical Co., Inc., 230 Morgan Ave., Brooklyn, N. Y. R. Heyder
Williams Co., J. B., Glastonbury, Conn.
Williams & Son, John T., Inc., 100 Broadway, New York City
Wilson & Co., Chicago, Ill.
Wing & Evans, 22 William St., New York City
Wolf & Co., Jacques, Passaic, N. J. Alfred Pfister
Winkler & Bro., Isaac, 804 First National Bank Bldg., Cincinnati, Ohio
Wood & Co., Granville, Oldham, England
Wood & Co., D. R., 400 Chestnut St., Philadelphia, Pa.
Wood, Inc., J. Early, 21 Platt St., New York City. K. M. Baum
Wood Products Co., Buffalo, N. Y.
Woodward Iron Co., Woodward, Ala.
Wright Chemical Corporation, 38 Park Row, New York City. R. W. Gumell
Wrigley, Jr., Co., Wm., 5 N. Wabash Ave., Chicago. Ill.

Young & Co., J. S., Hanover, Pa. James Alexander
Youngstown Chemical Co., Youngstown, Ohio. H. A. Seil
Youngstown Sheet & Tube Co., Youngstown, Ohio. David A. Russell
York Chemical Co., 103 Maiden Lane, New York City
York Chemical Works, York, Pa. H. B. Faber
York Metal & Alloy Co., York, Pa.

Zaremba Co., Niagara Life Ins. Bldg., Buffalo, N. Y.
Zenith Furnace Co., West Duluth, Minn.
Zenner Products Co., 133 W. Larned St., Detroit, Mich.
Zinsser & Co., Hastings-on-Hudson, N. Y. Wm. Skinschneider
Zobel Co., Inc., Ernest. 38 Water St., New York City. Mr. Lindle
Zobel Color Wks., Inc., 95–127 Ninth St., Brooklyn, N. Y. E. W. Pierce

II. INSTITUTIONAL LABORATORIES

Adelbert College, Cleveland, Ohio
Adelphi College, Brooklyn, N. Y.
Adrian College, Adrian, Mich.
Agnes Scott College, Decatur, Ga.
Agricultural & Mechanical College (colored) Norwalk, Conn,
Agricultural College of Utah, Logan, Utah
Agricultural and Mechanical College of Kentucky, Lexington, Ky.
Agricultural and Mechanical College of Texas, College Station, Texas
Alabama Polytechnic Institute, Auburn, Ala.
Albany College of Pharmacy, Union University, Albany, N. Y.
Albany Medical College, Albany, N. Y.
Albion College, Albion, Mich.
Allegheny College, Meadville, Pa.
Amherst College, Amherst, Mass.
Arizona School of Mines, Tucson, Ariz.
Arkansas College, Batesville, Ark.
Armour Institute of Technology, Chicago, Ill.
Army Medical School, Washington, D. C.
Ashland College, Ashland, Ohio
Atlanta College of Pharmacy, Atlanta, Ga.
Atlanta College of Physicians and Surgeons, Atlanta, Ga.
Atlanta Medical College, Atlanta, Ga.
Atlanta University, Atlanta, Ga.
Audubon Sugar School, Baton Rouge, La.
Austin College, Sherman, Texas
Baltimore City College, Baltimore, Md.
Baltimore Medical College, Baltimore, Md.
Baltimore Polytechnic Institute, Baltimore, Md.
Barnard College, New York City
Bates College, Lewiston, Me.
Baylor University, Waco, Texas
Baylor University Medical College, Dallas, Texas
Belmont College, Nashville, Tenn.
Beloit College, Beloit, Wis.
Berea College, Berea, Ky.
Bessie Tift College, Forsyth, Ga.
Bethany College, Topeka, Kansas
Bethany College, Bethany, W. Va.
Bethel College, Russellville, Ky.
Bingham School, Asheville, N. C.
Birmingham College of Pharmacy, Birmingham, Ala.
Bordentown Industrial and Manual Training School, Bordentown, N. J.
Boston Dental College, Boston, Mass.
Boston University, Boston, Mass.
Bowdoin College, Brunswick, Me.
Brigham Young College, Logan, Utah
Brigham Young University, Provo, Utah
Brenau College, Gainesville Ga.
Brooklyn College of Pharmacy, Brooklyn, N. Y.
Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.
Brooklyn Polytechnic Institute, Brooklyn, N. Y.
Brown University, Providence, R. I.
Bryn Mawr College, Bryn Mawr, Pa.
Bucknell University, Lewisburg, Pa.
Buffalo College of Pharmacy, Buffalo, N. Y.
California College, Oakland, Cal.
California College of Pharmacy, San Francisco, Cal.
California Polytechnic School, San Luis Obispo, Cal.
California State Normal School, Chico, Cal.
Calvert Hall College, Baltimore, Md.
Carleton College, Northfield, Minn.
Carnegie Institute of Technology, Pittsburgh, Pa.
Case School of Applied Sciences, Cleveland, Ohio
Catawba College, Newton, N. C.
Catholic University of America, Washington, D. C.
Central College for Women, Lexington, Miss.
Central College for Women, Lexington, Mo.
Central Michigan Normal Institute, Mount Pleasant, Mich.
Central Normal College, Dade City, Fla.
Central Normal College, Danville, Ind.
Central Normal College, Waddy, Ky.
Central State Normal School, Mt. Pleasant, Mich.
Central University of Kentucky, Danville, Ky.
Chicago College of Dental Surgery, Chicago, Ill.
Chicago College of Medicine and Surgery, Chicago, Ill.
Chicago College of Pharmacy, Chicago, Ill.
Chicago School of Assaying, Chicago, Ill.
Cincinnati College of Pharmacy, Cincinnati, Ohio
Clark College, Worcester, Mass.
Clark University, Worcester, Mass.
Clarkson Memorial College of Technology, Potsdam, N. Y.

Clemson Agricultural College, Clemson College, P. O., S. C.
Cleveland School of Pharmacy, Cleveland, Ohio
Cole College, Cedar Rapids, Iowa
Cogswell Polytechnic College, San Francisco, Cal.
Colby College, Waterville, Me.
Colgate University, Hamilton, N. Y.
College for Women, Columbia, S. C.
College of Charleston, Charleston, S. C.
College of the City of New York, New York City
College of Medicine and Surgery, San Francisco, Cal.
College of Pharmacy of City of New York, New York City
College of Physicians and Surgeons, Little Rock, Ark.
College of Physicians and Surgeons, Los Angeles, Cal.
College of Physicians and Surgeons, San Francisco, Cal.
College of Physicians and Surgeons, Baltimore, Md.
College of Physicians and Surgeons, Boston, Mass.
College of Physicians and Surgeons, Columbia University, New York City
College of Physicians and Surgeons, Memphis, Tenn.
College of Physicians and Surgeons, Dallas, Texas
College of the Holy Cross, Worcester, Mass.
College of the Pacific, San Jose, Cal.
Colorado Agricultural College, Fort Collins, Colo.
Colorado College, Colorado Springs, Colo.
Colorado School of Mines, Golden, Colo.
Colorado State Teachers' College, Greeley, Colo.
Colorado Women's College, Montclair, Colo.
Columbia College, Columbia, S. C.
Columbia Military College, Columbia, Tenn.
Columbia University, New York City
Connecticut Agricultural College, Mansfield, Conn.
Connecticut College for Women, New London, Conn.
Converse College, Spartanburg, S. C.
Corcoran Scientific School, Washington, D. C.
Cornell University, Ithaca, N. Y.
Cornell University Medical College, New York City
Cox College and Conservatory, College Park, Ga.
Creighton College of Pharmacy, Omaha, Neb.
Creighton Medical College, Omaha, Neb.
Creighton University, Omaha, Neb.
Culver Miltary Academy, Culver, Ind.
Cumberland University, Lebanon, Tenn.
Dartmouth College, Hanover, N. H.
Davidson College, Davidson, N. C.
De Paul University, Chicago, Ill.
De Pauw University, Greencastle, Ind.
Delaware College, Newark, Del.
Denison University, Granville, Ohio
Detroit College, Detroit, Mich.
Detroit College of Medicine, Detroit, Mich.
Detroit University, Detroit, Mich.
Dickinson College, Carlisle, Pa.
Drake University, Des Moines, Iowa
Drury College, Springfield, Mo.
Duquesne University, Pittsburgh, Pa.
Earlham College, Richmond, Ind.
Eastern Illinois State Normal, Charleston, Ill.
Emory and Henry College, Emory, Va.
Emory University, Atlanta, Ga.
Erskine College, Duewest, S. C.
Fishburne Military School, Waynesboro, Va.
Florida State College for Women, Tallahassee, Fla.
Fordham University, Fordham, N. Y.
Fordham University, New York City.
Fordham University College of Medicine, New York City.
Fordham University College of Pharmacy, New York City.
Fort Worth School of Medicine, Fort Worth, Texas.
Franklin and Marshall College, Lancaster, Pa.
Franklin College, Franklin, Ind.
Franklin College, Franklin, Ohio.
Furman University, Greenville, S. C.
Gallaudet College, Washington, D. C.
George Washington University, Washington, D. C.
Georgetown University, Washington, D. C.
Georgia Medical College, University of Georgia, Augusta, Ga.
Georgia Military Academy, Atlanta, Ga.
Georgia Military Academy, Milledgeville, Ga.
Georgia School of Technology, Atlanta, Ga.
Georgia State College of Agriculture and Mechanic Arts, Athens, Ga.
Gilman School, Roland Park, Md.
Goucher College, Baltimore, Md.
Gordon Institute, Barnesville, Ga.
Grinnell College, Grinnell, Iowa.
Groton School, Groton, Mass.
Hahnemann Medical College, San Francisco.

Hahnemann Medical College, Chicago, Ill.
Hahnemann Medical College, Philadelphia, Pa.
Hamilton College, Clinton, N. Y.
Hamline University, St. Paul, Minn.
Hampden-Sidney College, Hampden-Sidney, Va.
Harvard Medical School, Boston, Mass.
Harvard University, Cambridge, Mass.
Harvard University Dental School, Boston.
Haskell Institute, Lawrence, Kan.
Haverford College, Haverford, Pa.
Hill School, Pottsville, Pa.
Hobart College, Geneva, N. Y.
Hollins College, Hollins, Va.
Hospital Col. of Medicine, Louisville, Ky.
Howard College, Birmingham, Ala.
Howard University, Washington, D. C.
Hunter College, New York, N. Y.
Illinois College, Jacksonville, Ill.
Illinois State Normal University, Normal, Ill.
Illinois Wesleyan Univ., Bloomington, Ill.
Illinois Woman's College, Jacksonville, Ill.
Indiana University, Bloomington, Ind.
Indiana University, School of Medicine, Indianapolis, Ind.
Iowa State College, Ames, Ia.
Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa
Jacob Tome Institute, Port Deposit, Md.
James Millikin University, Decatur, Ill.
John B. Stetson University, De Land, Fla.
Johns Hopkins University, Baltimore, Md.
Kansas City College of Pharmacy and Natural Sciences, Kansas City, Mo.
Kansas Medical College, Topeka, Kan.
Kansas State Agricultural College, Manhattan, Kan.
Kansas State School of Mines and Metallurgy, Weir, Kan.
Kansas State University, Lawrence, Kan.
Kearney Military Academy, Kearney, Neb.
Kemper Military School, Booneville, Mo.
Kentucky Military Institute, Lyndon, Ky.
Kentucky School of Medicine, Louisville.
Kenyon College, Gambier, O.
Knox College, Galesburg, Ill.
Lafayette College, Easton, Pa.
Lawrence Scientific School, Cambridge, Mass.
Lawrence University, Appleton, Wis.
Lawrenceville School, Lawrenceville, N. J.
Lehigh University, South Bethlehem, Pa.
Leland Stanford Junior University, Stanford University, P. O., Cal.
Leland Stanford Junior University, College of Medicine, San Francisco, Cal.
Lewis Institute, Chicago, Ill.
Louisiana State Normal, Natchitoches, La.
Louisiana State University, Baton Rouge, La.
Louisiana State University, Agricultural and Mechanical College, Baton Rouge, La.
Louisville College of Pharmacy, Louisville, Ky.
Louisville Medical College, Louisville, Ky.
Lowell Textile School, Lowell, Mass.
Loyola College, Baltimore, Md.
Loyola University, Chicago, Ill.
Manhattan College, New York, N. Y.
Manhattan Trade School, New York, N. Y.
Manual Training and Commercial High School, Oakland, Cal.
Manual Training and Industrial School, Bordentown, N. J.
Marietta College, Marietta, O.
Marist College, Atlanta, Ga.
Marquette University, Milwaukee, Wis.
Maryland Agricultural College, College Park, Md.
Maryland College of Pharmacy, Baltimore, Md.
Maryland Medical College, Baltimore, Md.
Maryland State Normal School, Baltimore, Md.
Massachusetts Agricultural College, Amherst, Mass.
Massachusetts College of Pharmacy, Boston, Mass.
Massachusetts Institute of Technology, Boston, Mass.
Massachusetts State Normal, Westfield, Mass.
Mechanic's Institute, San Francisco, Cal.
Medical College of Georgia, University of Georgia, Augusta, Ga.
Medical College of Virginia, Richmond, Va.
Medical College of Indiana, Indianapolis, Ind.
Medical College of South Carolina, Charleston, S. C.
Medical Department of the University of West Tennessee, Memphis, Tenn.
Medical School of Maine, Bowdoin College, Portland, Me.

Medical College of Ohio, University of Cincinnati, Cincinnati, O.
Medical College of the State of South Carolina, Charleston, S. C.
Medical School of Virginia, Richmond, Va.
Medico-Chirurgical College, Philadelphia, Pa.
Meharry Medical College, Walden University, Nashville, Tenn.
Mercer University, Macon, Ga.
Mercer University School of Pharmacy, Macon, Ga.
Mercersburg Academy, Mercersburg, Pa.
Miami University, Oxford, O.
Michigan State Agricultural College, Agricultural College P. O., Mich.
Millikin University, Decatur, Ill.
Mills College, Mills College P. O., Cal.
Millsaps College, Jackson, Miss.
Milwaukee Medical College, Marquette University, Milwaukee, Wis.
Minneapolis College of Physicians and Surgeons, Hamline Univ., Minneapolis, Minn.
Minnesota Institute of Pharmacy, Minneapolis, Minn.
Mississippi Agricultural and Mechanical College, Agricultural College P. O., Miss.
Mississippi Medical College, Meridian, Miss.
Mississippi Textile School, A. and M. College, Agricultural College, Miss.
Missouri Military Academy, Mexico, Mo.
Missouri School of Mines, Rolla, Mo.
Missouri State Military School, Columbia, Mo.
Montana School of Mines, Butte, Mont.
Montana Agricultural College, Bozeman, Mont.
Montana State Normal College, Dillon, Mont.
Mooney School, Murfreesboro, Tenn.
National College of Pharmacy, Washington, D. C.
Nebraska College of Medicine, Lincoln, Neb.
Nebraska Normal College, Wayne, Neb.
New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.
New Jersey College of Pharmacy, Newark, N. J.
New Mexico College of Agriculture and Mechanic Arts, Agricultural College P. O., N. M.
New Mexico Military Institute, Roswell, N. M.
New Mexico School of Mines, Socorro, N. M.
New Orleans College of Pharmacy, New Orleans, La.
New Orleans Polyclinic, New Orleans, La.
New York Military Academy, Cornwall, N. Y.
New York Post-Graduate Medical School, New York, N. Y.
New York Polyclinic Medical School and Hospital, New York, N. Y.
New York School of Clinical Medicine, New York, N. Y.
New York State College of Agriculture, Cornell University, Ithaca, N. Y.
New York State College of Forestry, Syracuse University, Syracuse, N. Y.
New York State Veterinary College, Ithaca, N. Y.
New York University, New York, N. Y.
New York University Veterinary School, New York, N. Y.
Nevada State University, Reno, Nev.
Normal College of the City of New York, New York, N. Y.
Normal, Industrial and Mechanical College of South Carolina, Orangeburg, S. C.
Normal School of Arizona, Tempe, Ariz.
Normal School of New Mexico, Silver City, N. M.
Normal School of New Mexico, Santa Rosa, N. M.
North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C.
North Dakota Agricultural College, Fargo, N. D.
North Dakota School of Science, Wahpeton, N. D.
North Pacific College, Portland, Ore.
Northeast Manual Training School, Philadelphia
Northeastern Ohio Normal Col., Canfield, O.
Northwestern Military Academy, Lake Geneva, Wis.
Northwestern University, Evanston, Ill.
Northwestern University Dental School, Chicago, Ill.
Northwestern University Medical School, Chicago, Ill.
Northwestern University School of Pharmacy, Chicago, Ill.
Norwich University, Northfield, Vt.
Oakland College of Medicine and Surgery, Oakland, Cal.
Oberlin College, Oberlin, O.
Occidental College, Los Angeles, Cal.
Ohio College of Dental Surgery, University of Cincinnati, Cincinnati, O.
Ohio Institute of Pharmacy, Columbus, O.

Ohio Mechanics' Institute, Cincinnati, O.
Ohio-Miami Medical College, University of Cincinnati Medical Dept. Cincinnati, Ohio.
Ohio Military Institute, Cincinnati, O.
Ohio State University, Columbus, O.
Ohio Wesleyan University, Delaware, O.
Oklahoma Agricultural and Mechanical College, Stillwater, Okla.
Oklahoma School of Mines and Metallurgy, Wilburton, Okla.
Omaha College of Pharmacy, Omaha, Neb.
Oregon State Agricultural College, Corvallis, Ore.
Pacific College, Newberg, Ore.
Pennsylvania College of Dental Surgery, Philadelphia, Pa.
Pennsylvania Military College, Chester, Pa.
Pennsylvania State College, State College, Pa.
Philadelphia College of Pharmacy, Philadelphia, Pa.
Philadelphia Dental Col., Philadelphia, Pa.
Philadelphia Medical School of Temple College, Philadelphia, Pa.
Philadelphia Polyclinic, Philadelphia, Pa.
Philadelphia Textile School, Philadelphia, Pa.
Philip's Exeter Academy, Exeter, N. H.
Phillips Academy, Andover, Mass.
Pittsburgh College of Pharmacy, Pittsburgh, Pa.
Pittsburgh Dental College, Western University of Pennsylvania, Pittsburgh, Pa.
Princeton University, Princeton, N. J.
Pomona College, Claremont, Cal.
Pratt Institute, Brooklyn, N. Y.
Queen City College of Pharmacy, Cincinnati, Ohio
Racine College, Racine, Wis.
Radcliffe College, Cambridge, Mass.
Randolph-Macon College, Ashland, Va.
Randolph-Macon Woman's Col., Lynchburg, Va.
Reed College, Portland, Ore.
Rensselaer Polytechnic Institute, Troy, N. Y.
Rhode Island State College of Agriculture and Mechanic Arts, Kingston, R. I.
Rhode Island College of Pharmacy and Allied Sciences, Providence, R. I.
Rhode Island College, Kingston, R. I.
Rhode Island Normal School, Providence, R. I.
Rice Institute, Houston, Tex.
Richmond College, Richmond, Va.
Ripon College, Ripon, Wis.
Riverside Military Academy, Gainesville, Ga.
Roanoke College, Salem, Va.
Rose Polytechnic Institute, Terra Haute, Ind.
Rush Medical College, Chicago, Ill.
Rutgers College, New Brunswick, N. J.
St. John's College, Annapolis, Md.
St. Lawrence University, Canton, N. Y.
St. Louis College of Dentistry, St. Louis, Mo.
St. Louis College of Pharmacy, St. Louis, Mo.
St. Louis College of Physicians and Surgeons, St. Louis, Mo.
St. Louis Medical College, Medical Department Washington University, St. Louis, Mo.
St. Louis University, St. Louis, Mo.
St. Stephen's College, Annandale-on-Hudson, N. Y.
School of Agriculture, Tucson, Aris.
School of Agriculture, University of Minnesota, St. Anthony Park, Minn.
School of Agriculture and Experiment Farm, Crookston, Minn.
School of Dentistry, University of Ill., Chicago.
School of Engineering, Agricultural and Mechanical College, College Station, Texas.
School of Engineering, A. & M. College, Agricultural College P. O., Miss.
Sheffield Scientific Sch., New Haven, Conn.
Sibley College of Mechanical Engineering and Mechanic Arts, Ithaca, N. Y.
Simmons College, Boston, Mass.
Smith College, Northampton, Mass.
Smith College for Women, Geneva, N. Y.
South Carolina Military Academy, Charleston, S. C.
South Dakota State College, Department of Pharmacy, Brookings, S. D.
South Dakota Sch. of Mines, Rapid City, S. D.
Southeastern Dental College, Atlanta, Ga.
Southern Col. of Pharmacy, Atlanta, Ga.
Southern Dental College, Atlanta, Ga.
Southern Methodist University, Medical Department, Dallas, Texas.
Southern Methodist University, Dallas, Texas.
Southern University, Greensboro, Ala.
Southwestern University, Georgetown, Tex.
Southwestern University Medical College, Dallas, Tex.
State Agricultural College, Burlington, Vt.
State Agricultural College, Breen, Colo.

State Agricultural and Mechanical College, Baton Rouge, La.
State Agricultural and Mechanical College of Texas, College Station, Tex.
State Agricultural School, Jonesboro, Ark.
State Agricultural School, Magnolia, Ark.
State Agricultural School, Monticello, Ark.
State Agricultural School, Russellville, Ark.
State College of Kentucky, Lexington, Ky.
State College of Washington, Pullman, Wash.
State Normal and Industrial College, Greensboro, N. C.
State Normal-Industrial School, Ellendale, N. D.
State Normal and Industrial School, Harrisonburg, Va.
State Normal and Industrial School for Women, Fredericksburg, Va.
State Normal College, Athens, Ohio.
State Normal and Train. Sch., Cortland, N. Y.
State Normal College, Ypsilanti, Mich.
State Normal School, Florence, Ala.
State Normal School, Jacksonville, Ala.
State Normal School, Livingston, Ala.
State Normal School, Moundville, Ala.
State Normal School, Troy, Ala.
State Normal School, Chico, Cal.
State Normal School, Los Angeles, Cal.
State Normal School, San Diego, Cal.
State Normal School, San Francisco, Cal.
State Normal School, San Jose, Cal.
State Normal School, Gunnison, Colo.
State Normal School, Danbury, Conn.
State Normal School, Athens, Ga.
State Normal School, Albion, Idaho.
State Normal School, Lewiston, Idaho.
State Normal School, Emporia, Kan.
State Normal School, Bridgewater, Mass.
State Normal School, Fitchburg, Mass.
State Normal School, Farmingham, Mass.
State Normal School, Hyannis, Mass.
State Normal School, Lowell, Mass.
State Normal School, North Adams, Mass.
State Normal School, Salem, Mass.
State Normal School, Westfield, Mass.
State Normal School, Worcester, Mass.
State Normal School, Duluth, Minn.
State Normal School, Mankato, Minn.
State Normal School, Moorhead, Minn.
State Normal School, St. Cloud, Minn.
State Normal School, Winona, Minn.
State Normal School, Cape Girardeau, Mo.
State Normal School, Kirksville, Mo.
State Normal School, Maryville, Mo.
State Normal School, Springfield, Mo.
State Normal School, Warrensburg, Mo.
State Normal School, Reno, Nev.
State Normal School, Montclair, N. J.
State Normal School, Cullowhee, N. C.
State Normal School, Mayville, N. D.
State Normal School, Minot, N. D.
State Normal School, Valley City, N. D.
State Normal School, Buffalo, N. Y.
State Normal School, New Platz, N. Y.
State Normal School, Onconta, N. Y.
State Normal School, Oneonta, N. Y.
State Normal School, Bowling Green, Ohio.
State Normal School, Kent, Ohio.
State Normal School, Oxford, Ohio.
State Normal School, Monmouth, Ore.
State Normal School, Bloomsberg, Pa.
State Normal School, Indiana, Pa.
State Normal School, Mansfield, Pa.
State Normal School, West Chester, Pa.
State Normal School, Spearfish, S. D.
State Normal School, Springfield, S. D.
State Normal School, Salt Lake City, Utah.
State Normal School, Castleton, Vt.
State Normal School, Johnson, Vt.
State Normal School, Bellingham, Wash.
State Normal School, Cheney, Wash.
State Normal School, Athens, W. Va.
State Normal School, Glenville, W. Va.
State Normal School, Milwaukee, Wis.
State Normal School, Oshkosh, Wis.
State Normal School, Platteville, Wis.
State Normal School, River Falls, Wis.
State Normal School, Stevens Point, Wis.
State Normal School, Superior, Wis.
State Normal School, Whitewater, Wis.
State Normal School of Pennsylvania, Indiana, Pa.
State Normal School of Manual Arts, Santa Barbara, Cal.
State Normal and Training School, Brockport, N. Y.
State Normal and Training School, Cornwall, N. Y.
State Normal and Training School, Fredonia, N. Y.
State Normal and Training School, Oswego, N. Y.
State Normal and Training School, Potsdam, N. Y.
State Normal Training School, Danbury, Conn.
State Normal Training School, New Britain, Conn.
State Normal Training School, New Haven, Conn.
State Normal Training School, Fall River, Mass.

State School of Mines, Wilburton, Okla.
State Normal Training School, Willimantic, Conn.
State University, Louisville, Ky.
State University of Iowa, Iowa City, Ia.
State University of Kentucky, Lexington, Ky.
State University of North Dakota, Grand Forks, N. D.
Stevens Institute of Technology, Hoboken, N. J.
Stout Institute, Menominee, Wis.
Swarthmore College, Swarthmore, Pa.
Sweet Briar College, Sweet Briar, Va.
Syracuse University, Syracuse, N. Y.
Syracuse University, College of Medicine, Syracuse, N. Y.
Teachers' College, St. Louis, Mo.
Teachers' College, Columbia University, New York, N. Y.
Teachers' Training School, Albany, N. Y.
Teachers' Training School, Rochester, N. Y.
Teachers' Training School, Schenectady, N. Y.
Teachers' Training School, St. Paul, Minn.
Teachers' Training School, Hoboken, N. J.
Teachers' Training School, Springfield, Ill.
Teachers' Training School, Jersey City, N. J.
Teachers' Training School, Harrisburg, Pa.
Technical Normal School, Chicago, Ill.
Technical School of Cincinnati, Cincinnati, O.
Technological High School, Atlanta, Ga.
Tennessee Medical College, Knoxville, Tenn.
Tennessee Military Inst., Sweetwater, Tenn.
Texas Christian University, Ft. Worth, Tex.
Texas School of Mines, El Paso, Tex.
Throop College of Technology, Pasadena, Cal.
Toledo University, Toledo, O.
Tome School, Port Deposit, Md.
Trinity College, Hartford, Conn.
Trinity College, Durham, N. C.
Tulane University, New Orleans, La.
Tufts College, Tufts College P. O., Mass.
Union College, Schenectady, N. Y.
Union University, Albany, N. Y.
Union University, Jackson, Tenn.
United States College of Veterinary Surgery, Washington, D. C.
United States Indian Industrial School, Carlisle, Pa.
United States Military Academy, West Point, N. Y.
United States Naval Academy, Annapolis, Md.
University and Bellevue Hospital Medical College, New York, N. Y.
University of Akron, Akron, O.
University of Alabama, University, Ala.
University of Alabama Medical Department, Mobile, Ala.
University of Alabama School of Pharmacy, Mobile, Ala.
University of Arizona, Tucson, Ariz.
University of Arkansas, Fayetteville, Ark.
University of Arkansas Medical Department, Little Rock, Ark.
University of Arts and Trades, Toledo, O.
University of Buffalo, Buffalo, N. Y.
University of Buffalo, Dental Department, Buffalo, N. Y.
University of Buffalo, College of Pharmacy, Buffalo, N. Y.
University of Buffalo, Medical Department, Buffalo, N. Y.
University of California, Berkeley, Cal.
University of California College of Dentistry, San Francisco. Cal.
University of California Medical Department, San Francisco, Cal.
University of Chattanooga, Chattanooga, Tenn.
University of Chicago, Chicago, Ill.
University of Cincinnati, Cincinnati, O.
University College, Oak Hill, Ohio.
University of Colorado, Boulder, Colo.
University of Dallas, Dallas, Tex.
University of Denver, Denver, Colo.
University of Detroit, Detroit, Mich.
University of Florida, Gainesville, Fla.
University of Georgia, Athens, Ga.
University of Idaho, Moscow, Idaho.
University of Illinois, Urbana, Ill.
University of Illinois School of Medicine, Chicago, Ill.
University of Kansas, Lawrence, Kan.
University of Kansas School of Medicine, Rosedale. Kan.
University of Louisville, Louisville, Ky.
University of Maine, Orono, Me.
University of Maryland, Baltimore, Md.
University of Michigan, Ann Arbor, Mich.
University of Minnesota, Minneapolis, Minn.
University of Mississippi, University, P. O., Miss.
University of Missouri, Columbia, Mo.
University of Montana, Missoula, Mont.
University of Nashville, Nashville, Tenn.
University of Nebraska, Lincoln, Neb.

University of Nebraska College of Medicine, Omaha, Neb.
University of Nevada, Reno, Nev.
University of New Mexico, Albuquerque, N. M.
University of North Carolina, Chapel Hill, N. C.
University of North Carolina Medical School, Raleigh, N. C.
University of North Dakota, University P. O., N. D.
University of Notre Dame, Notre Dame, Ind.
University of Oklahoma, Norman, Okla.
University of Oklahoma, School of Medicine, Oklahoma, Okla.
University of Omaha, Omaha, Neb.
University of Oregon, Eugene, Ore.
University of Oregon Medical Department, Portland, Ore.
University of the Pacific, San Jose, Cal.
University of Pennsylvania, Philadelphia, Pa.
University of Pittsburgh, Pittsburgh, Pa.
University of Rochester, Rochester, N. Y.
University of Santa Clara, Santa Clara, Cal.
University of South Carolina, Columbia, S. C.
University of South Dakota, Vermillion, S. D.
University of Southern California, Los Angeles, Cal.
University of St. Ignatius, San Francisco, Cal.
University of Tennessee, Knoxville, Tenn.
University of Tennessee, College of Dentistry, Memphis, Tenn.
University of Tennessee Medical Department, Nashville, Tenn.
University of Tennessee, School of Pharmacy, Memphis, Tenn.
University of Texas, Austin, Tex.
University of Texas School of Pharmacy, Galveston, Tex.
University of Texas Medical Department, Galveston, Tex.
University of the South, Sewanee, Tenn.
University of Utah, Salt Lake City, Utah.
University of Vermont and State Agricultural College, Burlington, Vt.
University of Virginia, Charlottesville, Va.
University of Washington, Seattle, Wash.
University of West Tennessee, Memphis, Tenn.
University of Wisconsin, Madison, Wis.
University of Wooster, Wooster, O.
University of Wyoming, Laramie, Wyo.
University School of Medicine, Baltimore, Md.
Ursinus College, Collegeville, Pa.
Valparaiso University, Valparaiso, Ind.
Vanderbilt University, Nashville, Tenn.
Vassar College, Poughkeepsie, N. Y.
Villanova College, Villanova, Pa.
Vincennes University, Vincennes, Ind.
Virginia College, Roanoke, Va.
Virginia Military Institute, Lexington, Va.
Virginia Normal and Industrial Institute, Petersburg, Va.
Virginia Polytechnic Inst., Blacksburg, Va.
Virginia School of Dentistry, Medical College of Virginia, Richmond, Va.
Virginia School of Pharmacy, Medical College of Virginia, Richmond, Va.
Wabash College, Crawfordsville, Ind.
Wake Forest College, Wake Forest, N. C.
Washburn College, Topeka, Kan.
Washington and Jefferson College, Washington, Pa.
Washington and Lee University, Lexington, Va.
Washington College, Chestertown, Md.
Washington Dental College, Georgetown University, Washington, D. C.
Washington State College, Pullman, Wash.
Washington State Normal, Ellensburg, Wash.
Washington University, St. Louis, Mo.
Webb School, Belbuckle, Tenn.
Wellesley College, Wellesley, Mass.
Wenonah Military Academy, Wenonah, N. J.
Wentworth Military Acad., Lexington, Mo.
Wesleyan College, Macon, Ga.
Wesleyan University, Middletown, Conn.
West Virginia University, Morgantown, W. Va.
Western Reserve University, Cleveland, Ohio.
Wheaton College, Wheaton, Ill.
Whitman College, Walla Walla, Wash.
Whittier College, Salem, Ia.
Whittier College, Whittier, Cal.
Williamette University, Salem, Ore.
William Jewell College, Liberty, Mo.
William & Mary College, Williamsburg, Va.
Williams College, Williamstown, Mass.
Wittenburg College, Springfield, O.
Wofford College, Spartanburg, S. C.
Woman's College, Richmond, Va.
Woman's Medical College of Pennsylvania, Philadelphia, Pa.
Worcester Polytechnic Inst., Worcester, Mass.
Yale University, New Haven, Conn.

III. FEDERAL AND STATE LABORATORIES*

Bureau of Chemistry, Department of Agriculture, Washington, D. C.
Bureau of Animal Industry, Department of Agriculture, Washington, D. C.
Commissioner of Internal Revenue, Treasury Department, Washington, D. C.
United States Food and Drug Laboratory, Cincinnati, Ohio.
United States Food and Drug Laboratory, Minneapolis, Minn.
United States Food and Drug Laboratory, St. Louis, Mo.
United States Food and Drug Laboratory, Buffalo, N. Y.
United States Food and Drug Laboratory, Porto Rico.
United States Food and Drug Laboratory, Savannah, Ga.
United States Food and Drug Laboratory, Boston, Mass.
United States Food and Drug Laboratory, Chicago, Ill.
United States Food and Drug Laboratory, Denver, Colo.
United States Food and Drug Laboratory, New Orleans, La.
United States Food and Drug Laboratory, New York City.
United States Food and Drug Laboratory, Philadelphia, Pa.
United States Food and Drug Laboratory, Washington, D. C.
United States Food and Drug Laboratory, Honolulu, T. H.
United States Food and Drug Laboratory, Seattle, Wash.

Alabama

Commissioner, Department of Agriculture and Industries, Montgomery
B. B. Ross, Chemist, Alabama Polytechnic Institute, Auburn

Arizona

C. A. Bosworth, Director, State Laboratory, University of Arizona, Tucson

Arkansas

Commissioner, Bureau of Mines, Manufactures and Agriculture, Little Rock
Dr. William F. Manglesdorf, Chemist State Health Officer, Little Rock
A. R. Stover, Medical Department, University of Arkansas, Little Rock

California

Director, Bureau of Food and Drugs, University of California, Berkeley
State Dairy Bureau, 25 California St., San Francisco

Colorado

Food and Drug Commissioner, State Board of Health, Food and Drug Department, Capitol Building, Denver
State Dairy Commissioner, Fort Collins
J. B. Ekeley, State Chemist, University of Colorado, Boulder

Connecticut

Dairy and Food Commissioner, Capitol Building, Hartford
J. P. Street, Chemist, Agricultural Experiment Station, Drawer No. 1, New Haven

Delaware

President, State Board of Health, Wilmington
Herbert J. Watson, Chemist and Bacteriologist, State Board of Health, Newark
State Board of Pharmacy, Wilmington, Del.

District of Columbia

Health Officer, Health Department, Washington
Dr. J. J. Kinyoun, Bacteriologist, Health Department, Washington
Morris A. Pozen, Chemist, Health Department, Washington

Florida

Commissioner, Department of Agriculture, Tallahassee
R. E. Rose, Chemist, Department of Agriculture, Tallahassee

Georgia

Commissioner, State Board of Agriculture, Atlanta.
W. C. Dumas, Chemist, Department of Agriculture, Atlanta

Hawaii

A. W. Hansen, Territorial Board of Health, Honolulu

Idaho

Dairy, Food, and Sanitary Commissioner, Boise
Edward Rhodenbaugh. State Chemist, State Board of Health, Boise

* Included in this list are Federal and State officials of foods, drugs, dairying, and feeding stuffs.

Illinois

Commissioner, State Food Commission, 1627 Manhattan Building, Chicago
State Analyst, State Food Commission, 1627 Manhattan Building, Chicago

Indiana

State Food and Drug Commissioner, State House, Indianapolis (foods and drugs)
H. E. Bishop, Food Chemist, State House, Indianapolis
Wm. D. McAbee, Drug Chemist, State House, Indianapolis
John C. Diggs, Water Chemist, State House, Indianapolis

Iowa

Commissioner, Dairy and Food Commission, Des Moines
E. L. Redfern, State Chemist, Des Moines

Kansas

Secretary, State Board of Health, Topeka
State Dairy Commission, Manhattan
Director, Kansas Agricultural College Laboratory, Manhattan
Director, Food Laboratory, University of Kansas, Lawrence
L. E. Sayre, Drug Laboratory, University of Kansas, Lawrence

Kentucky

Food and Drug Department, Agricultural Experiment Station, Lexington (foods and drugs)
Director Agricultural Experiment Station, Lexington (feeding stuffs)
J. O. LaBach, Chief Chemist, Agricultural Experiment Station, Lexington
Linwood A. Brown, Drug Chemist, Agricultural Experiment Station, Lexington
W. R. Pinnell, Bacteriologist

Louisiana

President, State Board of Health, New Orleans
Cassius L. Clay, State Analyst, State Board of Health, New Orleans
Commissioner of Agriculture and Immigration, Baton Rouge (feeding stuffs)

Maine

Commissioner of Agriculture, Augusta
Chief Food and Drug Inspector Augusta (foods, drugs, and feeding stuffs)
Department of Agriculture, Orono (feeding stuffs)
James M. Bartlett, Chemist, Agricultural Experiment Station, Orono

Maryland

Food and Drug Commissioner, Department of Health, 16 W. Saratoga St., Baltimore (foods and drugs)
Dr. Wm. R. Stokes, State Bacteriologist, Baltimore
Dr. Wyatt W. Randall, Chief, Bureau of Chemistry, Baltimore

Massachusetts

Commissioner of Health, State Department of Health, 144 State House, Boston
Herman C. Lythgoe, Analyst, State Department of Health, Boston (foods and drugs)
Secretary, State Board of Agriculture, 136 State House, Boston (dairying and milk products)

Michigan

Dairy and Food Commissioner, Lansing (foods, feeding stuffs, dairying, and drugs)
State Chemist, Division of Chemistry, Agricultural Experiment Station, E. Lansing, Mich.
State Analyst, Dairy and Food Department, Lansing
A. R. Todd, Analytical Chemist, Dairy and Food Department, Lansing

Minnesota

Dairy and Feed Commissioner, New Capitol, St. Paul (dairying, foods, and feeding stuffs)
Julius Hortvet, State Dairy and Food Commission, Old Capitol, St. Paul

Mississippi

Commissioner of Agriculture and Commerce, Jackson (feeding stuffs)
W. F. Hand, State Chemist, Agricultural and Mechanical College, Agricultural College (foods and feeding stuffs)

Missouri

Food and Drug Commissioner, La Salle Building, St. Louis (foods and drugs)
Bureau of Dairying, Columbia
H. Edmund Wiedeman, Chemist, State Food and Drug Department, Holland Building, St. Louis

Montana

Director of Food and Drugs, Department of Public Health, Helena (foods and drugs)
State Dairy Commissioner, Helena
Wm. M. Cobleigh, Chemist, Montana Agricultural College, Bozeman

Nebraska

Deputy Commissioner, Food, Drug, Dairy and Oil Commission, Lincoln
W. S. Frisbie, Chemist, State Food, Drug, Dairy, and Oil Commission, Lincoln

Nevada

Commissioner, Food and Drug Control Department, Reno (foods, feeding stuffs, and drugs)
M. B. Kennedy, Chemist

New Hampshire

Secretary, State Board of Health, State House, Concord.
Chas. D. Howard, Chemist, State Board of Health, Concord (foods and drugs)
B. E. Curry, Chemist, Durham (feeding stuffs)

New Jersey

Secretary, State Board of Health
Dr. R. B. Fitz-Randolph, Chief, Division of Foods, Drugs, Sewerage, and Water, State Board of Health, Trenton (foods and drugs)
W. G. Tice, Chief Chemist, State Board of Health, Department of Foods and Drugs, Trenton
Director of Agricultural Experiment Station, New Brunswick (feeding stuffs)
Chief, Bureau of Creamery and Dairy Inspection, Trenton (dairy and creamery products)
Chas. S. Cathcart, State Chemist, Agricultural Experiment Station, New Brunswick

New York

Commissioner of Agriculture, Albany
Department of Agriculture, Albany (foods and feeding stuff)
Secretary, Board of Pharmacy, Albany (drugs)
E. J. Wheeler, State Department of Agriculture, 79 Chapel St., Albany

North Carolina

Commissioner, Department of Agriculture, Raleigh
W. M. Allen, State Food and Oil Chemist, Raleigh (foods and drugs)
B. W. Kilgore, State Chemist, Department of Agriculture, Raleigh (feeding stuffs)

North Dakota

E. F. Ladd, Commissioner and State Chemist, Agricultural Experiment Station, Agricultural College (foods, feeding stuffs, and drugs)
Robert Hulburt, Bacteriologist, Agricultural College
Roe E. Remington, Food Chemist, Agricultural College
W. F. Sudro, Drug Chemist, Agricultural College
Matty Jongeward, Drug Chemist
C. P. Guthrie, Drug Chemist, Agricultural College
Louis Jackson, Paint Chemist

Ohio

Chief of Dairy and Food Division, Agricultural Commission, Columbus (foods, dairying, and drugs)
S. K. Johnson, Columbus (feeding stuffs)

Oklahoma

Commissioner, Department of Public Health, Guthrie (foods and drugs)
State Board of Agriculture, Oklahoma City (feeding stuffs)
R. E. Andrews, State Chemist, Oklahoma City
G. K. Dixon, Bacteriologist, Oklahoma City
Dairy Commissioner, State Board of Agriculture, Oklahoma City

Oregon

Dairy and Food Commissioner, 510 Worcester Building, Portland
A. S. Wells, State Chemist, State Dairy and Food Commission, 510 Worcester Building, Portland

Pennsylvania

Dairy and Food Commissioner, Department of Agriculture, Harrisburg (foods and dairying)
Chief Chemist, Bureau of Chemistry, Department of Agriculture, Harrisburg (feeding stuffs)
Wm. Frear, Chemist, State Dairy and Food Commission, State College
Jas. A. Evans, Chemist, State Dairy and Food Commission, Erie
F. T. Aschman, Chemist, State Dairy and Food Commission, Pittsburgh
C. B. Cochran, Chemist, State Dairy and Food Commission, West Chester
Chas. H. Lawall, Chemist, State Dairy and Food Commission, Philadelphia
C. F. Schoen, Chemist, State Dairy and Food Commission, Scranton

Philippine Islands

Bureau of Health, Manila

Porto Rico

Director of Sanitation, P. O. Box 1108, San Juan

Rafael del Valle Sarraga, Service of Sanitation, P. O. Box 935, San Juan

Rhode Island

Chairman, Food and Drug Commission, State House, Providence (foods and drugs)

Director, Agricultural Experiment Station, Kingston (feeding stuffs)

Franklin N. Strickland, Executive Secretary-Chemist, Room 21, State House, Providence

South Carolina

Commissioner of Agriculture, Commerce and Industries, Columbia (feeding stuffs, foods, and drugs)

A. C. Summers, Chief Chemist, Department of Agriculture, Commerce and Industries, Columbia

South Dakota

Guy G. Frary, Food and Drug Commissioner, Vermilion (foods, drugs, and feeding stuffs)

Dairy Expert, Dairy Expert Department, Brookings (dairies and dairy products)

Tennessee

Commissioner, Food and Drug Commissioner, Nashville (foods and drugs)

Commissioner of Agriculture, Nashville (feeding stuffs)

M. E. Hinds, Chief Chemist, Nashville

Texas

Commissioner, Food and Drug Department, Austin (foods and drugs)

E. H. Golaz, Chemist and Collaborating Chemist, U. S. Dept. of Agriculture, Food and Drug Department, Austin

D. F. Snyder, Chemist, Food and Drug Department, Austin

Director Agricultural Experiment Station, College Station (feeding stuffs)

State Chemist, College Station

Utah

Commissioner, State Dairy and Food Department, Salt Lake City

Herman Harms, State Chemist, State Dairy and Food Bureau, 312 Boyd Park Building, Salt Lake City

Vermont

Secretary, State Board of Health, 184 Church St., Burlington (foods and drugs)

Director, Agricultural Experiment Station, Burlington (feeding stuffs).

Dr. B. H. Stone, Director of Laboratory. Burlington

Virginia

Dairy and Food Commissioner, Department of Agriculture and Immigration, Richmond (dairying, foods and feeding stuffs)

State Board of Pharmacy, Richmond (drugs)

C. M. Bradbury, State Department of Agriculture and Immigration, Division of Chemistry, Richmond

J. B. Weems, State Chemist, State Dairy and Food Commission, Richmond, Va.

H. V. Stewart, Bacteriologist

Washington

Commissioner of Agriculture, Division of Dairy and Live Stock, Olympia.

Division of Foods, Feeds, Fertilizers, Drugs, State Department of Agriculture, Olympia (foods, feeding stuffs, and drugs)

Geo. A. Olson, State Chemist, Pullman

Dr. C. W. Johnson, State Chemist, Seattle

West Virginia

Commissioner, Department of Agriculture, Charleston (foods and drugs)

Wisconsin

Dairy and Food Commissioner, Madison (dairying, foods and drugs)

Director, Agricultural Experiment Station, Madison (feeding stuffs) Chemist, Feed and Fertilizer Control, Madison

H. Kleuter, Chemist, Food and Drug Department, Madison

Wyoming

Dairy, Food, and Oil Commissioner, Cheyenne (foods, feeding stuffs, and drugs)

Ross B. Moudy, State Chemist, University of Wyoming, Laramie

IV. MUNICIPAL LABORATORIES*

Alabama
- Birmingham
- Mobile
- Montgomery

Arizona
- Phoenix
- Tucson

Arkansas
- Fort Smith
- Little Rock

California
- Alameda
- Berkeley
- Los Angeles
- Oakland
- Sacramento
- San Francisco
- San Diego
- San Jose
- Stockton

Colorado
- Boulder
- Colorado Springs
- Denver

Connecticut
- Bridgeport
- Hartford
- New Britain
- New Haven
- New London
- Norwalk
- Norwich

Delaware
- Newark
- Wilmington

District of Columbia
- Washington

Florida
- Jacksonville
- Key West
- Tampa

Georgia
- Athens
- Atlanta
- Augusta
- Macon
- Savannah

Hawaii
- Honolulu

Idaho
- Boise

Illinois
- Alton
- Cairo
- Chicago
- Danville
- Elgin
- Evanston
- Quincy
- Rockford
- Rock Island
- Springfield

Indiana
- Evansville
- Fort Wayne
- Gary
- Indianapolis
- Marion
- New Albany
- Richmond
- South Bend
- Terre Haute

Iowa
- Cedar Rapids
- Clinton
- Council Bluffs
- Davenport
- Des Moines

Kansas
- Hutchinson
- Kansas City
- Leavenworth
- Topeka
- Wichita

Kentucky
- Covington
- Lexington
- Louisville

Louisiana
- Alexandria
- Baton Rouge
- Monroe
- New Orleans

Maine
- Augusta
- Bangor
- Brunswick

Maryland
- Baltimore
- Cumberland
- Frederick

*Address: City Chemist, Department of Health (City), (State)

Massachusetts

Boston
Brookline
Cambridge
Clinton
Everett
Fall River
Gloucester
Haverhill
Lawrence
Lowell
Lynn
Medford
New Bedford
Springfield
Taunton
Waltham
Westfield
Worcester

Michigan

Ann Arbor
Battle Creek
Detroit
Grand Rapids
Kalamazoo

Minnesota

Dulu h
Minneapolis
St. Paul

Mississippi

Meridian
Vicksburg

Missouri

Joplin
Kansas City
St. Joseph
St. Louis

Montana

Anaconda
Helena
Missoula

Nebraska

Lincoln
Omaha

Nevada

Reno

New Hampshire

Berlin
Dover
Manchester

New Jersey

Atlantic City
Bayonne
Camden
Hoboken
Jersey City
Newark
New Brunswick
Orange
Passaic
Paterson
Trenton

New Mexico

Alberquerque

New York

Albany
Brooklyn
Buffalo
Ithaca
New York
Niagara Falls
Rochester
Schenectady
Syracuse
Troy
Utica

North Carolina

Asheville
Charlotte
Durham
Raleigh
Wilmington

North Dakota

Fargo
Grand Forks

Ohio

Akron
Cincinnati
Cleveland
Columbus
Dayton
Springfield
Toledo
Youngstown
Zanesville

Oklahoma

Oklahoma City
Tulsa

Oregon

Portland

Pennsylvania

Easton
Erie
Harrisburg
Philadelphia
Pittsburgh
Scranton

Philippine Islands
Manila

Rhode Island
Bristol
Newport
Pawtucket
Providence

South Carolina
Charleston
Columbia
Greenville
Spartanburg

South Dakota
Aberdeen
Sioux Falls

Tennessee
Chattanooga
Memphis
Knoxville
Nashville

Texas
Austin
Dallas
Galveston
Houston
San Antonio
Waco

Utah
Ogden
Salt Lake City

Vermont
Burlington

Virginia
Alexandria
Lynchburg
Norfolk
Portsmouth
Richmond
Roanoke
Staunton

Washington
Seattle
Spokane
Tacoma

West Virginia
Charleston
Parkersburg
Wheeling

Wisconsin
Madison
Milwaukee
Oshkosh
Racine
Superior

VII. SOCIETIES AND ASSOCIATIONS

Agriculture

Agricultural Horticultural Society of Burma, Rangoon, India: Capt. W. H. Allen, Secretary; founded 1864; members 325; annual dues 20 Rs.

Association Internationale des Botanistes, Leiden, Holland.

Association Scientifique Internationale d'Agronomique Coloniale, Paris, France.

Botanical Society of Edinburgh, 5, St. Andrew Square, Edinburgh, Scotland

Cercle Liegeois de Botanique, Liège, Belgien

Cie Française de l'Afrique Occidentale, 32, Cours Pierre Puget, Marseille, France

Dansk Botanisk Forenig, Kjöbenhavn, Danëmark

Deutsche Botanische Gesellschaft, Berlin, Germany.

Highland and Agricultural Society of Scotland, 3 George IV. Bridge, Edinburgh, Scotland; J. Stirton, Secretary; founded 1787; members 7000; annual dues £1 3s. 6d.; 10s.

Kiel Ver. z. Pflege d. Nat. u. Landesk., Hamburger Chaussee 110; H. Barford, Secretary; founded 1890; members, 3500; annual dues, 3M.

Moscow Agricultural Society, Moscow, Russia.

Royal Agricultural and Commerce Society, Georgetown, British Guiana; J. Cunningham, Secretary; founded 1844; members 500; annual dues $10.

Royal Agricultural Society of England. 16 Bedford Square, W. C., London, England; T. McRow, Secretary; founded 1838; members 12,000; annual dues £1.

Royal Botanic Society of London, Royal Botanic Gardens, Regents' Park, N. W., London, England.

Royal English Arboricultural Society, Haydon Bridge, Northumberland, England; E. Davidson, Secretary; founded 1882; members 1400; annual dues 4s.; 7s. 6d.; £1 1s.

Royal Scott. Arboricultural Society, 19 Castle St., Edinburgh, Scotland; R. Galloway, Secretary; founded 1854; members 1430; annual dues £1 1s.; 10s.; 6d.; 6s.; 4s.

Société Botanique de France, 84, Rue de Grenelle, VII, Paris, France.

Société Centrale d'Agriculture de Belgique, Bruxelles, Belgium.

Société Nationale d'Acclimatation de France, 33, Rue de Buffon, Paris, France.

Société Nationale d'Horticulture de France, 84, Rue de Grenelle, VII, Paris, France.

Société d'Agriculture. Rio de Janiero; Moura Brazil, President.

Société Royale de Botanique de Belgique, Jardin Botanique de l'État, Bruxelles, Belgien.

Ver. f. Geschichte u. Landesk. Osnabruck, Germany; Herr Brunk, Secretary; founded 1848; members 400; annual dues 4M.

Bacteriology

American Society of Pathologists and Bacteriologists, Boston, Mass. Harold C. Ernet, Secretary; founded 1900; members 200; annual dues $4.

British Medical Association (sect. Bacteriology), London, England.

British Microscopical Society, 20, Hanover Sq., W., London, England.

Dublin Microscopical Club, Leinster House, Kildare St., Dublin, Ireland.

Royal Microscopical Society, London, England.

Scottish Microscopical Society, 4 Queen St., Edinburgh, Scotland.

Société Belge de Microscopie, Bruxelles, Belgien.

Society of American Bacteriologists, Glenolden, Pa.; A. Parker Hitchens, Secretary; founded 1899; members 500; annual dues $5.

Chemistry

American Ceramic Society, Edward Orton, Columbus, Ohio, Secretary.

American Chemical Society, Washington, D. C.; C. L. Parsons, Secretary; founded 1876; members 12,000.

American Dyestuff Manufacturers Association. C. Cyril Bennett, 149 Broadway, New York City.

American Electrochemical Society, South Bethlehem, Pa.; Prof. Joseph W. Richards, Secretary; members 1550.

American Institute of Chemical Engineers, Cooper Union, New York, N. Y.; J. C. Olsen, Secretary; members 275.

Apotekare-Societetens, Stockholm, Sweden. No particulars given.

Association des Chemistes de Sucrerie et de Distillerie, Paris, France. No particulars given.

Association of German Chemists, Germany, Stephanstr. 8 pt., Leipzig, Germany; B. Rassow, Secretary; founded 1887; members 6000; annual dues 20M.

Associatione Chimica Industriale di Torino; Dr. Giancomo Ciamician, Torino, Italy.

Belgium Société Chimique, 7 Galerie du Travil, Brussels, Belgium; J. Wauters, Secretary; founded 1887; members 500; annual dues 10 f.

Berlin Ver. Chem. Reichsanstalt, Berlin, Germany; R. Pschorr, Secretary; founded 1908; annual dues 1000M.

British Association for the Advancement of Science, Burlington House, London, W., England.

Bunsen Ges. (Applied Physical Chemistry), Mozartstr. 7 Leipzig, Germany; J. Wagner, Secretary; founded 1894; members 800; annual dues 25M.

Canadian Section of the Society of Chemical Industry; Alfred Burton, Hon. Secretary, Toronto, Canada.

Cercle de la Chimie, 54, Rue de Turbigo, Paris III^{e}, France.

Chemical, Metallurgical and Mining Society of South Africa, James Moir, Cape Town, South Africa.

Chemical Society of Prague, Prague, Austria. No particulars given.

Chem.-Physicians Ges. of Vienna, Turkenstr. 3; E. Krause, Secretary; founded 1874; members 185; annual dues 4 kr.

Chemistry Division, M. and M. Society of S. Africa, 9 S. A. School of Mines Bldg. Eloff St., Johannesburg, S. Africa; E. Rowland, Secretary; members 200; annual dues £2 2s.

Deutsche Chem. Ges. Germany, Sigismundstr. 4, W. 10, Berlin, Germany; B. Lepsius, and H. Jost, Secretaries; founded 1867; members 3500.

English Ceramic Society, County Pottery Laboratory, Stoke-on-Trent; J. W. Mellor, Secretary; founded 1900; members 300; annual dues 15s.

Holland, Nederlands, Chem. Ver., Drift 14, Utrecht, Holland; P. A. Meerburg, Secretary; founded 1900; members 450; annual dues 10 Gld.

Indian Institute of Science, Bangalore, India.

Institute of Brewing of London, Brewers Hall, Addle St., London, E. C., England. Julian L. Baker, Secretary; founded 1886; members 1000; annual dues 25s.

Institute of Chemistry of London, 30, Bloomsburg Square, W. C.; R. B. Pilcher, Secretary; founded 1877; members 1420; annual dues £1 1s.

International Association of Chemical Societies, care of Chemical Society, Burlington House, London, England; A. W. Crossley, Secretary; founded 1911; members 20,000.

International Association for Testing Materials; H. M. Rowe, (New York) founded 1895; members 3500; annual dues $2.50.

International Petroleum Commission, Tech. Hochsch., Karlsruhe, Germany; L. Ubbelohde, Secretary; founded 1907; members 300.

International Rubber Testing Commission, J. E. Fol, General Secretary, Delft, Holland; (Secretary for Great Britain, Herbert Wright, Secretary, 59, Eastcheap, London, England) founded 1909; members 500.

Kgl. Akademie der Wissenschaften, Potsdamerstrasse, 120, W. 35, Berlin, Germany.

L'Association Scientifique de France, 28, Rue Serpento, Hôtel des Sociétés Savantes, Paris, France.

Manufacturing Chemists' Association of the United States, Garrett Bldg., Baltimore, Md.; members 46.

National Association of Cement Users. Richard L. Humphreys, Philadelphia, Pa.

National Research Council. Chemistry Committee, Marston Taylor Bogert, Chairman, Munsey Bldg., Washington, D. C.; founded 1911.

Pharmaceutical Society, London, England.

Pharmaceutical Society of Japan, Tokyo, Japan.

Royal Institute of Public Health, London, England.

Schweizerische Chemische Gesellschaft, Basel, Switzerland.

Schweizerische Gesellschaft fuer Chemische Industrie, Zofingen, Switzerland.

Sociedad Aragonesa de Ciencias Naturales, Zaragoza, Spain.

Sociedad Espanola de Fisica y Quimica, Madrid, Spain. Prof. Gonsalez Marto, Secretary, Universidad de Madrid; members 300.

Sociedad Fomento Fabril, Santiago, Chili.

Sociedad Quimica Argentina; Calle Lavalle, 1790; Buenos Aires, Argentina.
Société Chimique de Paris, Paris, France.
Société de Chemie Physique, Paris. M. Charles, 98 Rue du Cherche-Midi, Paris.
Société de Chimie Industrielle, Paris, France. Organized 1917. Le Secrétaire Général. 49. Rue de Mathurins, Paris, France.
Societa Chimica Italiana; Dr. Giacomo Ciamician, Torino, Italy.
Société de Chim.-Physicians of Paris, 9, Rue de Pagneux; C. Marie, Secretary; founded 1908; members 225; annual dues 5 fr.
Société Chimique de Belgique, Bruxelles, Belgien.
Société Chimique de France, 44; Rue de Rennes, Paris, France; P. Freundler, Secretary; founded 1857; members 1200; annual dues 36 fr.
Société Generale des Fabricants de Sucre de Belgique, Brussels, Belgium. No particulars given.
Société Royale de Pharmacie, Bruxelles, Belgien.
Société Royale des Sciences, Liège, Belgien
Société Royale des Sciences Medicales et Naturalles de Bruxelles, 9a, Rue Montoyer, Bruxelles, Belgien.
Société Technique et Chimique de Sucrerie de Belgique, Brussels, Belgium. No particulars given.
Society of Chemical Industry, London, Broadway Chambers, Westminster, S. W., Prof. Henry Louis, President; C. G. Cresswell, Secretary; founded 1881; members 4500; annual dues £1 5s.
Society of Chemical Industry, Tokyo; Prof. Jokichiro Yemori, Tokyo, Japan.
Society of Chemical Industry of Victoria, Melbourne, Australia. No particulars given.
Society Chim. of Portugal, 141, Lusiadas, Lisbon, Portugal; H. Mastbaum, Secretary; founded 1911; members 100; annual dues 5 Mil.
Society of Dyers and Colourists, 30 Pearl Assurance Bldgs.; J. B. Atkinson, Secretary; founded 1884; members 950; annual dues £1 1s.
Society of Public Analysts of London, 8, Duke St., Aldgate, E. C.; E. Richards Bolton and P. A. Ellis Richards, Secretaries; founded 1874; members 400; annual dues £1 1s.
The Chemical Society, Burlington House, London, W.; Stanley E. Carr, Assistant Secretary; founded 1841; members 3225; annual dues £2.
Verein Oesterreichisher Chemiker, Wien, Austria. No particulars given.
Ver. deutscher Eisenhuttenleute Germany, Breite Str. 27, Dusseldorf, Germany, E. Schrodter, Secretary; founded 1860; members 6000.
Vesterreichische Gesellschaft zur Nörderung der Chemischchen, Prague, Austria. No particulars given.
Zentralverein fuer die Ruebenzucker-Industrie Oesterreichs und Ungarns, Wein, Austria. No particulars given.

Engineering

American Institute of Electrical Engineers, 29 W. 39th St., New York, N. Y.
American Institute of Metals, Buffalo. N. Y.; W. M. Cores, Secretary; members 350; dues $10.
American Institute of Mining Engineers, Engineers Bldg., 29 W. 39th St., New York City; Bradley Stoughton, Secretary; members 6000; dues $12.
Association franc. des Eng. de Propriete Indust. of France, 19, Rue Blanche, Paris, France.
Associazione Elettrotechia Italiana. Prof. Carlo Parropassu, General Secretary, Paroda, Italy.
Chemical, Metallurgical and Mining Society of South Africa; James Moir, Cape Town, South Africa.
Cold Storage and Ice Association of London, 3 Oxford Court, Cannon St.; J. Raymond, Secretary; founded 1900; members 150; annual dues £1 1s.
Engineering and Science Association of Ireland, 43, Dawson St., Dublin, Ireland; A. E. Porte and G. Idle, Secretaries; founded 1903; members 230; annual dues 15s.
Institute of Metals of London, Caxton House, Westminster; G. Shaw-Scott, Secretary; founded 1908; members 600; annual dues £2 2s.
Institute Mining Engineers of London, 39 Victoria St., Westminster; L. T. O'Shea and P. Strzelecki, Secretaries; founded 1889; members 3500.
Institute Mining and Metallurg of London, Salisbury House; C. McDermid, Secretary; founded 1892; members 2500; annual dues £3 3s.
International Congress Mines and Geology, 1915, London, England.
Iron and Steel Institute, London, 28 Victoria St., Westminster; G. C. Lloyd, Secretary; founded 1869; members 2400; annual dues £2 2s.
Mining Institute of Scotland, 39 Elmbank Crescent, Glasgow, Scotland; J. Barrowman, Secretary; founded 1878; members 675; annual dues £2 2s. £1 5s.

North of England Institute Mining & Mechanical Engineers, Neville Hall, Newcastle; L. Austin, Secretary; founded 1852; members 1300; annual dues £2 2s.

Société de l'Industrie Minerale, Saints Etienne, Loire, France.

Société Internationale des Electriciens, 292 Rue St. Martin, Paris, France.

The Illuminating Engineering Society, London; R. Lessing, 317 High Hilborn St., London, W. C., England. No particulars given.

The Institute Gas Engineers, London, 39 Victoria St., S. W.; W. T. Dunn, Secretary; founded 1863; members 875; annual dues £1 1s.

West of Scotland Iron and Steel Institute, 39 Elmbank Crescent, Glascow, Scotland; R. G. Jenkins, Secretary; founded 1892; members 450; annual dues £1 1s.

Geology and Mineralogy

Edinburgh Geology Society, 1 India Bldgs., Edinburgh, Scotland; W. T. Gordon, Secretary; founded 1834; members 250; annual dues 12s. 6d.

Geologists' Association of London, University College, London, England; A. L. Leach, Secretary; founded 1858; members 800; annual dues 10s.

Geology Ges. Vienna, Franzensring 3; F. X. Schaffer, Secretary; founded 1907; members 342; annual dues 10k.

Geology Society of Luxembourg, Arlon, Rue St. Jean, 59; A. Jerome, Secretary; founded 1894; members 60; annual dues 5 fr.

Geology Society of America, care of American Museum Natural Hist., New York; E. O. Hovey, Secretary; founded 1888; members 375; annual dues $10.

Geology Society of Belgium, 7, Place de l'Universite, Liege, Belgium; P. Tourmarier, Secretary; members 350; annual dues 15 fr.

Geology Society of Glasgow, 207 Bath St.; P. Macnair, Secretary; founded 1858; annual dues 10s.

Geology Society of London, Burlington House; A. S. Woodward, Secretary; founded 1807; members 1300; annual dues £2 2s.

Geology Society of South Africa, P. O. Box 1071, Johannesburg, South Africa; G. S. Corstorphine, Secretary; founded 1895; members 200; annual dues £2 2s.

Geology Ver. of Frankfurt, Viktoria Allee, 7, Frankfurt a. M.; Geh. Rat.; F. Drevermann, Secretary; founded 1910; annual dues 10M.

German Geology Society, Invalidens tr. 44, Berlin, Germany; Dr. Bartling and Dr. Fleigel, Secretaries; founded 1848; members 1000; annual dues 30M.

German Mineralogy Society, Jena; G. Linck, Secretary; founded 1908; members 275; annual dues 7½M.

Ges. f. Mineralogy u. Geology of Jena, Mineralogy Institute; K. Kolesch, Secretary; founded 1909; members 130; annual dues 2M.

Hungarian Geology Society, Stefania ut 14, Budapest; K. v. Papp, Secretary; founded 1850; members 800; annual dues 10 Kr.

Imperial Mineralogy Society of St. Petersburg, Russia; F. N. Tschernyschew, Secretary; founded 1817; members 400; annual dues 5 Rub.

International Congress of Hydrology, Climatology and Geology; 18 rue Beaujon, Paris, France; Ch. Amat. Secretary; founded 1904.

Italian Geology Society, Via S. Susanna 13, Rome, Italy; A Verrie, Secretary; founded 1881; members 300; annual dues 15 lire.

Liverpool Geology Association, Lord Derby Museum, William Brown St.; annual dues 5s.

Liverpool Geology Society, Royal Institution; W. A. Whitehead, Secretary; founded 1859; members 80; annual dues 10s. 6d.

Manchester Geology and Mining Society, 5 John Dalton St., Manchester, England; S. A. Smith, Secretary; founded 1838; members 400; annual dues £2 2s.

Mexican Geology Society, 6a, Cipres 176, Mexico; P. Waitz, Secretary; founded 1904; members 120; annual dues $12 Mex.

Minerology Ges. of Vienna, Vienna, Austria; A. Himmelbauer, Secretary; founded 1901; members 152; annual dues 10k.

Minerology Society of London, London, England, Natural History Museum, S. Kensington; G. T. Prior, Secretary; founded 1876; members 150; annual dues £1 1s.

Oberrheinischer Geology Ver., Heidelberg, Germany; W. Salomon, Haberle' Secretary; founded 1871; members 460; annual dues 5M.

Royal Geology Society of Cornwall, Penzance, England; J. B. Cornish, Secretary; founded 1814; members 100; annual dues £1 1s.

Société de Mineralogy de France, 1 Rue Victor Cousin, Paris, France; R. Tronquoy, Secretary; founded 1878; members 155; annual dues 20 fr.

Société Geologie de France, 28 Rue Serpente, Paris, France; P. H. Tritel and F. Canu, Secretaries; founded 1830; members 525; annual dues 30 fr.

Société Belge de Geologie, de Paleontologie et d'Hydrologie,

Société Geologique de Belgique, Lüttich, Belgien.

Society of Geology, Paleontology and Hydrology of Belgium, Brussels, Belgium, 19 Rue Tasson Snel; Baron L. Greindl, Secretary; founded 1887; members 500; annual dues 15 fr.

Stockholm Geology Association, Stockholm, Sweden; H. Munthe, Secretary; founded 1871; members c. 450.

Yorkshire Geology Society, Sheffield, Burnside, Pitsmoor Road; annual dues 13s.

VIII. PUBLICATIONS

I. TECHNICAL AND SCIENTIFIC JOURNALS, UNITED STATES AND FOREIGN

Abstracts of Bacteriology. bm. $5.00d $5.50f. Williams & Wilkins Co., Baltimore, Md.

Acetylene, 30 Red Lion Square, London, E. C.

Agricultural Gazette of New South Wales, The. m (6d.)d. Minister of Agriculture, Sydney, N. S. W.

Agricultural Journal of India, The. q R6 (R2)d and f. Messrs. Thacker, Spink & Co., Calcutta, India.

Algemeine Forst- und Jagd-Zeitung. m M16d. J. D. Sauerlander, Frankfurt am Main.

Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation. w K12d. K12 and postage, f. Berein Osterreich. Versuchs-station und Akademie für Brau- und Malz-industrie in Wien, Michaelerstrasse Nr. 25, Wien XVIII/1.

American Druggist and Pharmaceutical Record. m $1d. 62-8 W. Broadway, New York City.

American Fertilizer, The. bw $2 ($.25) d, $3f, $2.50 Can. Ware Bros., 1010 Arch. St., Philadelphia, Pa.

American Food Journal, The. m $2.50. ($.15)d, $2.50f. 15-21 S. Market St., Chicago, Ill.

American Gas Engineering Journal (formerly The American Gas Light Journal). w 2 vols. $3d, $5f. E. P. Callender, 42 Pine St., New York City.

American Journal of Anatomy, The. bm $5d, $5.50f. Wistar Institute, 36th St. and Woodland Ave., Philadelphia, Pa.

American Journal of Botany. m $4 ($.50)d, $4.40f. 41 N. Queen St., Lancaster, Pa.

American Journal of Diseases of Children. m $3 ($.30)d, $3.35 ($.30)f. American Medical Association, 535 N. Dearborn St., Chicago, Ill.

American Journal of the Medical Sciences, The. m $5d. Lea & Febiger, Philadelphia and New York.

American Journal of Pharmacy. m $3 ($.25)d. 145 N. 10th St., Philadelphia, Pa.

American Journal of Physiology, The. m 4 vols. $5.50 per vol. Williams & Wilkins Co., Baltimore, Md.

American Journal of Public Health. m [N.S.] $3 ($.30)d, $3.50 ($.80)f. $3.25 Can. 755 Boylston St., Boston, Mass.

American Journal of Science, The. m 2 vols. $6d, $6.25 Van., $6.40f. New Haven, Conn.

American Journal of Syphilis. q. $d. ($5.40 Canada, $5.50f.) C. V. Mosby Co., St. Louis, Mo.

American Naturalist, The. m $4 ($.40)d. Science Press, Lancaster, Pa.

American Perfumer and Essential Oil Review, The. m $1($.10)d, $2($.20)f. Perfumer Publishing Co., 80 Maiden Lane, New York City.

American Photography. m $1.50 ($.75)d, $2.25f. American Photography Publishing Co., 221 Columbus Ave. Boston, Mass.

Anales del instituto médico nacional. Irr Secretaría de Instrucción Publica y Bellas Artes, Mexico City.

Anales de la sociedad espanola de fisica y quimica. m, except Aug. and Sept., 15 pesetas, d. D. Ramón Llord y Gamboa, Calle de Jorge Juan num. 59, Madrid, Spain.

Anales de la sociedad quimica Argentnia. q Rue Carlos Pellegrini, 62 Buenos Aires, Argentine Rep.

Analyst, The. m. L1, 1s(2s)d Simpkin, Marshall, Hamilton, Kent & Co., Ltd., 2, 4, 6, 8, Orange St., London, S. W., England.

Anatomischer Anzeiger. Irr about 3 vols., 24 nos. per vol. M16d. Gustav Fischer, Jena.

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Annalen der Chemie, Justus Liebig's. sm 4 vols. of 3 nos. each. M24d. C. F. Winter'sche Verlagshandlung. Leipzig. Rossstr. 6.

Annalen der Physik. C. F. Winter'sche Verlagshandlung, Rosstr. 6. Leipzig.

Annals of Botany. q 30s (14s)d, (15s6d f. Humphrey Milford, Oxford University Press, Amen Corner, London, E. C.

Annales de chimie m F25d, F28f (or F45d and F50f for both Am. chim

and Ann. phys.). Masson et Cie, Boul. Saint-Germain, 120, Paris.

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Annuaire géologique et minéralogique de la Russie. Irr F20 (F5)f. M. c. Directeur, Novo-Alexandrie, gov. Lublin, Russia.

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Annalen der Physik. 15 nos. yearly, 3 vols. M54d. J. A. Barth. Dörrienstrasse 16, Leipzig.

Annales de la science agronomique française et étrangère. m 2 vols. F24d, F26f. Berger-Levrault, 5–7 rue des Beaux Arts, Paris, France.

Annali ds chimica applicata. sm L30d, L34f. G. Paterno, Via Palermo, N 3, Roma.

Annali d igiene sperimentale. 4 times a year. L18f. Corso Raffaello 28, Torino, Italy.

Annals of Tropical Medicine and Parasitology. Irr 1£2s6d d. University Press of Liverpool, 57 Ashton St., Liverpool.

Annual Reports of the Society of Chemical Industry on the Progress of Applied Chemistry. Vol. III. 495 pp. Issued by the Society of Chemical Industry, 46–47 Finsbury Square. London, E. C., 2, 1919. Price, to members, 5s. 6d.; to non-members, 10s. 6d.

Apotheker-Zeitung. bw M10 d and f (25 pfg)f. Deutschen Apotheker-Verein, 87 Levetzowstr. 16b, Berlin N. W. 87.

Apotheker-Zeitung, Deutsch-Amerikanische. m $1. 104 John St., New York.

Arbeiten aus dem Kaiserlichen Gesundheitsamte, about 8 nos. a year, 2 or more vols., price varies. Julius Springer, Berlin.

Archief voor de Rubberculture in Ned. Indië. No information received on price and issues per year. Ruygrok & Co., Batavia, Java.

Archiv für Anatomie und Physiologie. 1914. M54d (both) Physiol. Abteilung 6 nos., Heft 1 and 2, M26; Anatom. Abteilung 6 nos., Heft 1 M40d. Veit & Co., Leipzig.

Archives de biologie. Irr F50d.. Masson & Cie, Paris.

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Archief voor de Suikerindustrie in Nederlandsch-Indie. w W. C. Dickhoff, Editor, Surabaya, Java.

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Beiträge zur Mineralogie von Japan. lrr Kelly & Walsh, Yokohama, Japan

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Biological Bulletin, The. m $6d, ($0.75)f. New Era Printing Co., Lancaster, Pa.

Bohmische Bierbrauer, Der. w (N.S.) K16d. Prag, 872–11.

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Bollettino chimico farmaceutico. sm L8 (L.50)d, L10(L50)f. Via Fiori Oscuri N. 13 (Farmacie di Brera) Milano.

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British and Colonial Druggist. 194 Bishopgate, London, E. C., England.

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Bulletin de l'association des chimistes de sucrerie et de distillerie. m F20 (F2)d, F25f. L. Raimbert, 156 Boulevard Magenia, Paris.

Bulletin of the Department of Agriculture, Trinidad and Tobago. m (3d)d. Board of Agriculture, Trinidad.

Bulletin Geological Institution, University of Upsala. Hj. Sjögren, Upsala, Sweden.

Bulletin of the Geological Society of America. q $10, $7.50 to institutions. 420 11th St., N. W., Washington, D. C.

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Bulletin internationale de l'académie des sciences de Cracovie. A. m K8(40h)d: B. m 1914. K10d. Imprimerie de l'Université, Krakau, Austria.

Bulletin of the Johns Hopkins Hospital, The. m $2.00($.25)d, $2.50f. The Johns Hopkins Press, Baltimore, Md.

Bulletin of Pharmacy. m $1($.10)d. E. G. Swift, Detroit, Mich.

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Bulletin des sciences pharmacologiques. m F15(F1.50)d, F18f. Prof. E. Perrot, 56 Rue Madame, Paris (62 Arrondissement).

Bulletin de la société botanique de France. Au Siege de la Société, Rue de Grenelle, 84.

Bulletin de la société chimique de France. sm. F37d, F38f. Masson et Cie., 120, Boulevard Saint-Germain (6), Paris.

Bulletin de la société chimique de belgique. m M. Jules Wauters, Palais du Midi, Galerie du Travail, 7, Brussels, Belgium.

Bulletin de la société d'encouragement pour l'industrie nationale. m Free to members: dues F36. 44, rue de Rennes, Paris.

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Bulletin de la société geologique de France. Irr Free to members. Société Géologique de France, 28, rue Serpente, Paris, VI.

Bulletin de la société scientifique d'hygiène alimentaire et d'alimentation rationnelle de l'homme. 10 nos. a year. F13 d (F1.50)d and f, F15f. Masson et Cie., 120 Boulevard Saint-Germain, Paris.

Bulletin de la société imperiale des naturalistes de Moscou. a Moscow.

Bulletin de la société industrielle d'Amiens. q F12f. G Stora, 45 Rue des Capucins, Amiens.

Bulletin de la société de l'industrie minérale. m F35d, F40f. La Société, 19 rue du Grand Moulin, Saint Etienne

Bulletin de la société industrielle de Mulhouse. m F50d. F60f. Veuve Bader et Cie., Mulhouse, Ger.

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Bureau of Mines, Bulletins, Circulars and Technical papers. Government Printing Office, Washington, D. C.

Bureau of Standards, Bulletins, Circulars, Technical papers, etc. Government Printing Office, Washington, D. C.

Cairo Scientific Journal, The. m P. T.60(P.T.5). Honorary Editor, Dawawyn Post Office, Egypt.

Canada Department of Mines (Geological Survey) Bulletins, Memoirs and Reports. Government Printing Bureau, Ottawa, Can.

Canadian Engineer, The. w $3 ($.10)d. 62 Church St., Toronto, Ontario, Canada.

Canada Geological Survey. Government Printing Bureau, Ottawa.

Canadian Chemical Journal. m $2.00 Bigger Press, Ltd., 36 Toronto St., Toronto, Canada.

Canadian Medical Association Journal, The. m $5($.50)d. Morang & Co., Ltd., Toronto, Can.

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Celluloid Industrie, Die (Supplement to Gummi Zeitung). sm Gummi Zeitung, Berlin, S 61.

Cement and Engineering News, m $1($.15)d, $1.50f. William Seafert, 1117 Schiller Bldg., Chicago, Ill.

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Centralblatt für Bakteriologie, Parasitenkunde und Infectionskrankheiten. I Abteilung (a) Referata, about $16, (b) Originale, about $19.25; II Abteilung, about $13. Gustav Fischer, Jena.

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Chemical Abstracts. sm $6d, $7f. Charles I. Parsons, Box 505, Washington, D. C.

Chemist-Analyst, The. q Gratis. J. T. Baker Chemical Co., Phillipsburg, New Jersey.

Chemical Color and Oil Daily. d $10d. $13 Can. $13f. Trades Reporting Bureau, New York.

Chemische Apparatur. sm M16d, M19, pfg. 20f. Otto Spamer, Täubschenweg 26, Leipzig = R.

Chemical Engineer, The. m $2.00 (d; $2.50 Can.; $3f). McCready Publishing Co., 118 E. 28th, New York.

Chemische Industrie, Die. sm M20d and f. Weidmannsche Buchhandlung, Berlin S. W., Zimmerstr. 94.

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Chemical News and Journal of Physical Science, The. w £1(4.5d)d and f. 16 Newcastle St., Farringdon St., London E. C.

Chemische Revue ueber die Fett- und Harz-Industrie. m M14(M1.75)d. Dr. Louis Allen, Catharinenstrasse, 25, Hamburg.

Chemical Science, 16 Newcastle St., Farringdon St., London, E. C., England.

Chemical Technology, The. m $2.00. Dr. H. Nishida, Japan.

Chemiker- und Techniker-Zeitung, Allgemeinen österr. sm M16d. Hans Urban, Pötzleinsdorferstr. 22, Wien. XVIII/3.

Chemical Trade Journal and Chemical Engineer, The. w 12s6d(4d)d and f. 265 Strand, London, W. C.

Chemisch Weekblad. w f.7.50d, f.8.80f. D. B. Centen, Amsterdam.

Chemical World, The. m 6s(6d)d, 8s(6d)f. J. & A. Churchill, 7 Great Marlborough St., London, W.

Chemisches Zentralblatt. w 1. M80. R. Friedländer & Sohn, Karlstr., 11, Berlin, N. W.

Chemiker-Zeitung. 3 nos. a week. M24d, M28f. Otto v. Halem, Cöthen, Ger.

Chemist and Druggist, 42 Cannon St., London, E. C., England.

Chimie et Industrie. Société de Chimie Industrielle, 49 Rue des Mathurins Paris, France.

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Concrete and Constructional Engineering. m 9. 12s6d(1s)d. $3.25f. Waterloo Place, London, S. W.

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Deutsche Mechaniker-Zeitung (Beiblatt zur Zeitschrift für Instrumentenkunde). M6. Julius Springer, Berlin, W. 9.

Deutsche Medizinische Wochenschrift. w $5. Georg Thieme, 15 Antonstrasse, Leipzig.

Deutsche tierärztliche Wochenschrift. w 22. M16d, M16 plus postage, f. M. & H. Schaper, Hannover, Ger.

Deutsche Zuckerindustrie, Die. M 24d. Berlin S. W. (11) Dessauer strasse 18.

Diamant, Glasindustrie Zeitung. trim M8d, M10f. A. Duncker, Leipzig, Keil-Str. 1.

Dingler's polytechnisches Journal. w M24d, M26.5-M30f. Richard Dietze, Verlagsbuchhandlung, Berlin, W. 66.

Det Kgl. Danske Videnskabernes Selskabs Skrifter. Price varies. Andr. Fred. Höst & Son, Copenhagen, Denmark.

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Experiment Station Record. Office of Experiment Stations, U. S. Dept. Agr., Washington, D. C.

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Földtani Közlöny. m Magyarhoni Földtani Tarsulat, Vll, Stefániaút 14.

Folia Haematologica. Irr I Abteilung, Archiv., M75d; II Abteilung, Zentral Organ. about 2 vols. 15. (4). M32d. Dr. Werner Klinkhardt, Leipzig.

Fortschritte der Chemie, Physik und physikalische Chemie. m $8f. Gebr. Borntraeger, Schöneberger Ufer 12a, Berlin W, 35.

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Gas World, The. w (1537). 17s6d-(4d)d, 21sf, John Allan & Co., 8 Bouverie St., London, E. C.

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Gesundheits-Ingenieur. w M20d, M26f. R. Oldenbourg, Glückstr. 8, Munich.

Giornale di Chemica Industriale. A Journal Established by the Coöperation of Italian Industrial Societies. Will correspond in Italian to the French Chimie et Industrie. Published monthly at 10, Via San Paolo, Milan. Price, 40 lire.

Giornale di farmacia, di chimica e di scienze affini. m L8d, L9f(L.70). Soc. di Farmacia, di Torino, Via Maria Vittoria, 23, Torino, Italy.

Glashütte, Die. Zeitschrift für die gesamte Glasindustrie emailleindustrie und Verwandte Zweige. w M12d, M16f. Dresden-A, 14, Germany.

Glas-Industrie, Die. (Bruhns Fachblatt.) w M8(25pfg)d, M10f. Berlin S. W. 48, Wilhelmstr. 8.

Glassworker, The. w $2d, $2.50f. Commoner Publishing Co., Decatur Bldg., Pittsburgh, Pa.

Glückauf, Berg- und Hüttenmannische Zeitschrift. w 2 vols. M20d, M36f. Beeckmann, Essen, Germany.

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Halle aux cuirs, La. w F22d, F30f. 10 Rue Beaurepaire, Paris, France.

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Illuminating Engineer. m 10s6d(1s)d. 32 Victoria St., London, S. W.

Illustrierte landwirtschaftliche Zeitung. sw M15.6d, M21.2f. Berlin S. W., 11, Dessauer Strasse, 6.

Illustrated Official Journal (Patents). 25 Southampton Bldgs., Chancery Lane, London, W. C.

Industria chimica, mineraria e metallurgica, 'L. sm L20(L1)d, L25f. Amministrazione, Via Roma, n. 28, Torino, Italy.

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Informes memorias del instituto mexicano de minas y metalurgia. bm. Institute, D. F. Apartacto, 1753, Mexico.

Internationales Centralblatt für die gesamte Tuberkuloseforschung. m M20. Verlag von Curt Kabitzsch, Würzburg, Germany.

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Internationales Zentralblatt für Baukeramik und Glasindustrie. sm K12d, F16f. Hermann Loewenthal, Wien, IX/1, Porzellangasse 49, A, Austria-Hungary.

International Zeitschrift für Metallographie. lrr M40d. Gebrader Borntraeger, Berlin w. 35, Schoeneberger Ufer 12a.

International Zeitschrift für physikalischechemische Biologie. lrr M15. Wilhelm Englemann, Leipzig.

Iron Age, The. w 2 vols., $5($.20)d. David Williams Co., 239 W. 39th St., New York City.

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Journal of Acetyle Welding, m $1d. Peoples Gas Bldg., Chicago, Ill.

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Journal of Home Economics, The. 12 times per year. $2($.50)d. American Home Economics Assoc., Baltimore, Md.

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Journal für Landwirtschaft. q M10d. Paul Parey, Berlin, S. W., 11, Hedemannstrasse, 10 w. 11.

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Journal of the Pharmaceutical Society of Japan (Yakugakuzasshi). m Nippon Yakugakwai, No. 8 Shimo-Miyabichyo, Ushigomeku, Tokyo, Japan.

Journal of Physical Chemistry, The. m except July, Aug. Sept. $4d. Ithaca, N. Y.

Journal of Physiology. m 2 vols. 6s6dd. Cambridge Univ. Press, Fetter Lane, London, E. C.

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Journal of the Royal Agricultural Society of England. a 10sd. John Murray, 50A Albemarle St., W. London.

Journal of the Royal Society of Arts. w (6d). G. Bell & Sons, Ltd., York House, Portugal St., London, W. C.

Journal of the Russian Physical-Chemical Society. 9 nos. a year. R12 (R1.50)d and f. Prof. Nicolai Nicolaevich Sokovium, Chemical Laboratory, Univ. of St. Petersburg.

Journal of the Russian Physico-Chemical Society (Physical Part). 9 times per yr. 6Rd. N. A. Hesehus, St. Petersburg University, Physical Institute, St. Petersburg.

Journal de sciences mathematics, physicas e naturaes. 1rr. 500 réis per single no. Academia Real das Sciencias de Lisboa, Rua do Arco (a Jesus), Lisbon, Portugal.

Journal of the Society of Chemical Industry. sm 36s(1s9d). Vacher & Sons, Ltd., Great Smith St., Westminster, London, S. W.

Journal of the Society of Dyers and Colorists. m 21s(2s)d. 30-32 Pearl Assurance Bldgs., Market St., Bradford, England.

Journal of the Society of Glass Industry. q £3, 3s. W. E. S. Turner, The University, Sheffield, England.

Journal of the Society of Leather Trades Chemists. m 24s. The University, Leeds, England.

Journal of State Medicine, The. m (2d). 37 Russell Square, London, W. C.

Journal of Tropical Medicine and Hygiene. bm 18s(1s)d. Bale, Sons & Danielsson, 83–91 Gt. Litchfield St., London, W.

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Journal of the West of Scotland Iron and Steel Institute, The. m from Oct. to Apr., incl. 21s(5s)d. The Secretary, 124 St. Vincent St., Glasgow.

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Keramische Rundschau. w M10d, M12f. Berlin N. W. 21.

Klinische Beiträge zur Klinik der Tuberkulose. m about 4 vols. $13.25 (M6). Curt Kabitzsch, Würzburg, Germany.

Kolloidschemische Beihefte. 12 nos. a yr. M12(M1 50pfg.)d. Theodore Steinkopf, Dresden and Leipzig.

Kolloid-Zeitschrift. m 2 vols. M32-(M3–4)d. Theodor Steinkopff, Dresden and Leipzig.

Kühn Archiv. sa M12(M6)d. Paul Parey, S. W. 11, Hedemannstrasse 10 u. 11, Berlin, Germany.

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Landwirtschaftliche Jahrbücher. Irr M12d. Paul Parey, Berlin, S. W., Hedemannstr. 10 & 11.

Landwirtschaftlichen Versuche-Stationen, Die. Irr. M12d. Paul Parey, Berlin S. W., Hedemannstr. 10 & 11.

Landwirtschaftliche Zeitung (Fühlings). sm M12d. Eugen Ulmer, Stuttgart, Olgastr. 83.

Leather Manufacturer, The. m $3 ($.25)d. Rogers & Atwood Publishing Co., 683 Atlantic Ave., Boston, Mass.

Leather Trades' Review, The. w 10s-(6½d)d, 12s6df. 24 Mark Lane, London E. C., England.

Leather World, The. w 7s6d(6d)d, 10sf. Leather Trades Publishing Co., Ltd., The Exchange, Southwark St., London, S. E.

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Ledertechnische Rundschau (Tech. suppl. of Die Lederindustrie). w M10(M.50)d (free with subscriptions to (Lederindustrie)). ($.50)f. F. A. Günther, Berlin S. W. 11, Schäneberger Str. 9.

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Salt: A History and Description of the Manufacture and Mining of Salt in New York State. C. J. Werner. 8vo. 144 pp. Price, $7.50. The Author, Huntington, N. Y.

Salt and the Salt Industry. A. F. Calvert. 12mo. 151 pp. Price, $1.00. Sir Isaac Pitman & Sons, New York.

Sand, Its Occurrence, Properties and Uses; A Bibliography. 8vo. 72 pp. Carnegie Library, Pittsburgh.

Sands: A Supplementary Memoir on British Resources of Sands and Rocks Used in Glass Manufacture. P. G. H. Boswell. 8vo. 92 pp. Price, $1.00. Longmans, Green & Co., New York.

Sanitation, Practical; A Handbook for Sanitary Inspectors and Others Interested in Sanitation. George Reid. With Appendix on Sanitary Law. Illustrated. Nineteenth edition, revised. London: Charles Griffin & Co. Price, 7s. 6d. net.

Sanitary Engineering: Elements of Sanitary Engineering. Mansfield Merriman. 8vo. 250 pp. Price, $2.00. John Wiley & Sons, Inc., New York.

Science: A Short History of Science. W. T. Sedgwick and H. W. Tyler. 8vo. 474 pp. Price, $2.50. The Macmillan Co., New York.

Science and its Functions. Alan A. Campbell Swinton. Reprinted from the Journal of the Society of Arts. London: William Clowes and Sons, Ltd.

Science and Industry. R. T. Glazebrook. 12mo. 51 pp. Price, $0.50. G. P. Putnam's Sons, New York.

Science: Experimental General Science. W. N. Clute. 12mo. 303 pp. Price, $1.00. P. Blakiston's Son & Co., Philadelphia.

Science: General Science. C. H. Lake. 12mo. 438 pp. Price, $1.25. Silver, Burdett & Co., Boston, Mass.

Science: Introduction to the Study of Science. W. P. Smith and E. G. Jewett. 12mo. 620 pp. Price, $1.40. The Macmillan Co., New York.

Science, What Industry Owes to Chemical. Richard B. Pilcher and Frank Butler-Jones. With an introduction by Sir George Beilby. London: Constable & Co., Ltd. 1918. Pp. xiv+150. Price, 3s. net.

Scientific Discovery: Wonders of Scientific Discovery. C. R. Gibson. 8vo. 158 pp. Price, 3s. Seeley, Service & Co., Ltd., London.

Scrap Metals. George H. Manlove and Charles Vickers. 278 pp. Price, $2.00. Cleveland, Ohio: The Penton Publishing Co.

Sewage Disposal. L. P. Kinnicutt, C.-E. A. Winslow and R. W. Pratt. 2nd Ed. Rewritten. 547 pp. Price, $4.00. John Wiley & Sons, Inc., New York.

Sewage Purification and Disposal. G. B. Kershaw. 8vo. 340 pp. Price, $3.75. Philadelphia Book Co., Philadelphia, Pa.

Sewerage; the Designing, Construction and Maintenance of Sewerage Systems. A. P. Folwell. 8th Ed. 8vo. 43 pp. Price, $3.00. John Wiley & Sons, Inc., New York.

Sheet Metal: Essentials of Sheet Metal Work. J. S. Daugherty. 12mo. 181 pp. Price, $1.50. F. J. Drake & Co., Chicago.

Sheet Metal Work. W. Neubecker. 8vo. 267 pp. Price, $2.00. American Technical Society, Chicago.

Sheet Metal Workers' Manual. L. Broemel and J. S. Daugherty. 16mo. 552 pp. Price, $2.00. F. J. Drake & Co., Chicago.

Soap Makers Directory, 1918. 21st Ed. 8vo. 97 pp. Price, 2s. 6d. Simpkin, Marshall & Co., London.

Soil Conditions and Plant Growth. E. J. Russell. 3rd Ed. 8vo. 243 pp. Price, $2.00. Longmans, Green & Co., New York.

Soil Physics and Management. J. G. Mosier and A. F. Gustafson. 8vo. 442 pp. Price, $2.00. J. B. Lippincott Co., Philadelphia.

Soils and Plants, The Relation of some of the Rarer Elements in. W. O. Robinson, L. A. Steinkoenig, and C. F. Miller. United States Department of Agriculture, Bulletin No. 600.

Solution, the Nature of. Harry C. Jones. London: Constable & Co., Ltd. 1917. Pp. xxiii+380. Price, 12s. 6d. net.

Solution, Studies on in Its Relation to Light-Absorption, Conductivity, Viscosity, and Hydrolysis. P. B. Davis and Others. 8vo. 144 pp. Price, $2.00. Carnegie Institute of Washington, Washington, D. C.

Spectroscopy. E. C. C. Baly. 8vo. 701 pp. Price, 12s. 6d. Longmans, Green & Co., London.

Staining and Polishing. Including Varnishing and Other Methods of Finishing Wood. 8vo. 218 pp. Price, 3s. 6d. Evans Bros., London.

Steam: Properties of Steam and Ammonia. G. A. Goodenough. 2nd Ed. 4 to. 126 pp. Price, $1.25. John Wiley & Sons, New York.

Steam Engines: A Thorough and Practical Presentation of Modern Steam Engine Practice. L. V. Ludy. 2nd Ed. 8vo. 192 pp. Price, $1.00. American Technical Society, Chicago.

Steam Engines: Les Machines à vapeur. F. Cordier. 18mo. 402 pp. Octave Doin et fils, Paris.

Steam Power Plant Engineering. G. F. Gebhardt. 8vo. 347 pp. Price, $4.00. John Wiley & Sons, New York.

Steel: Fabrication de l'acier. H. Noble. 2nd Ed. 632 pp. Price, 25fr. H. Dunod et E. Pinat, Paris.

Steel: Forge-Practice and Heat Treatment of Steel. J. L. Bacon. 3rd Ed. Revised and enlarged by E. R. Markham. 12mo. 418 pp. John Wiley & Sons, Inc., New York.

Steel: Practical Shell Forging and the Plastic Deformation of Steel and Its Heat Treatment. C. O. Bower. 8vo. 279 pp. Price, $10.50. Longmans, Green & Co., New York.

Steel: Trempe, Recuit, Cementation et Conditions d'emploi des aciers. L. Grenet. Price, 20fr. Ch. Beranger, Paris.

Steam Wagon: Manual of the Steam Wagon. Maintenance, Overhauling, Garge, and Running Repairs. 8vo. 104 pp. Temple Press.

Temperature: Methods of Measuring Temperature. D. Griffiths. 8vo. 176 pp. Price, $2.75. J. B. Lippincott Co., Philadelphia.

Steel and Its Treatment. E. F. Houghton & Co. 3rd Ed. 12mo. 165 pp. Price, $1.50. The Author, Philadelphia.

Steel and Its Heat Treatment. D. K. Bullens. 2nd. Ed. 8vo. 483 pp. Price, $4.00. John Wiley & Sons, inc., New York.

Stereo-chemistry. Alfred W. Stewart. 2nd Edition. Pp. xvi+277. Longmans, Green & Co., London. 1919. Price, 12s. 6d. net.

Stoichiometry. Sydney Young. 2nd. Ed. 8vo. 363 pp. Price, $3.75. Longmans, Green & Co., New York.

Strength of Materials. E. R. Maurer. 8vo. 126 pp. Price, $1.00. American Technical Society, Chicago.

Strength of Materials. Arthur Morley. 5th Ed. 8vo. 555 pp. Price, $5.40. Longmans, Green & Co., New York.

Sugar: A Handbook for Cane-Sugar Manufacturers and Their Chemists. G. L. Spencer. 6th Ed. 16mo. 561 pp. Price, $3.50. John Wiley & Sons, New York.

Sugar Beet Seed, History and Development. T. G. Palmer. 12mo. 120 pp. Price, $1.35. John Wiley & Sons, New York.

Sugar: Manual de fabricantes de azucar de cana y guimicos azucareros. G. L. Spencer. 16mo. 617 pp. Price, $5.00. John Wiley & Sons, Inc., New York.

Sulphuric Acid Handbook. Thomas J. Sullivan. 240 pp. $2.50. New York: McGraw-Hill Book Company, Inc.

Surface Tension and Surface Energy and Their Influence on Chemical Phenomena. R. S. Willows and E. Hatshek. 2nd Ed. 8vo. 123 pp. Price, 4s. 6d. J. & A. Churchill, London.

Symmetry, Lectures on the Principle of and its Practical Application in all Natural Sciences. F. M. Jaeger, Ph.D., Professor of Inorganic and Physical Chemistry in the University of Gröningen, Holland. 305 pp.

Tables: A. B. C. Five-Figure Logarithms and Tables for Chemists. C. J. Woodward. 18mo. 76 pp. Price, 3s. E. & F. N. Spon, London, and Spon & Chamberlain, New York.

Thermodynamics: Notes on Thermodynamics. H. W. Spangler. 12mo. 77 pp. Price, $1.00. John Wiley & & Sons, Inc., New York.

Thermodynamics: System of Physical Chemistry. Volume 2. W. C. M. Lewis. 3 vols. 2nd Ed. 8vo. 403 pp. Price, $4.50. Longmans, Green & Co., New York.

Timber, Its Strength, Seasoning and Grading. H. S. Betts. 224 pp. McGraw-Hill Book Co., New York.

Tungsten, Molybdenum and Vanadium. (Preliminary Report 4.) 8vo. 34 pp. Price, Gratis. California State Mining Bureau, Ferry Building, San Francisco, Cal.

Transmission Gears. E. Butler. 8vo. 164 pp. Price, 8s. 6d. Charles Griffin & Co., London.

Trioxymethylene: The Action of Trioxymethylene on Various Hydrocarbons in the Presence of Anhydrous Aluminum Chloride. V. R. Kokatnur. 8vo. 45 pp. Price, $0.50. University of Minnesota, Minneapolis.

Van Nostrand's Chemical Annual. J. C. Olsen. 4th issue. 1918. 12mo. 778 pp. Price, $3.00. D. Van Nostrand Co., New York.

Varnishes: The Manufacture of Varnishes and Kindred Industries. Vol. 1. The Crushing, Refining and Boiling of Linseed and Other Varnish Oils. A. Livache and J. G. McIntosh. 3d Ed. Revised. 498 pp. Price, 17s. 6d. Scott, Greenwood & Son, London.

Varnish Plants: Monthly Cost Accounting for Varnish Plants. E. W. Storey. 8vo. 51 pp. Price, $1.25. Philadelphia Press and Pub. Co., Philadelphia.

Vegetable Oils: Production and Treatment of Vegetable Oils. T. W. Chalmers. 4to. 152 pp. Price, $7.50. D. Van Nostrand Co., New York.

Volumetric Analysis, New Reduction Methods in. Edmund Knecht and Eva Hibbert. Reissue with Additions. London: Longmans, Green & Co. 1918. Pp. x+135. Price, 5s. net.

Volumetric Analysis. Charles H. Hampshire. Second Edition. London: J. & A. Churchill. 5s.

Volumetric Analysis: A Complete Course of Volumetric Analysis. William T. Bone. 164 pp. Price, 3s. 6d. Blackie & Son, Ltd., London.

Waste in Modern Boiler Rooms, Finding and Stopping. G. H. Gibson and P. S. Lyon. 12mo. 274 pp. Price, $1.00. Harrison Safety Boiler Works, Philadelphia.

Water: Fresh Water Biology. H. B. Ward and G. C. Whipple. 8vo. 111 pp. Price, $6.00. John Wiley & Sons, Inc., New York.

Water Analysis: A Simple Method of Water Analysis. J. C. Thresh. 9th Ed. 18mo. 69 pp. Price, 3s. J. & A. Churchill, London.

Water Rights Determination from an Engineering Standpoint. J. M. Whitham. 8vo. 204 pp. Price, $2.50. John Wiley & Sons, Inc., New York.

Waterproof Engineering. Joseph Ross. 8vo. 442 pp. Price, $5.00. John Wiley & Sons, Inc., New York.

Water Supply Engineering. A. P. Folwell. 8vo. 484 pp. Price, $3.50. John Wiley & Sons, Inc., New York.

Water Supplies, Rural, and Their Purification. A. C. Houston. 8vo. 151 pp. Price, 7s. 6d. Bale, Sons & Danielssohn, London.

Welding: A Practical Manual of Autogenous Welding (Oxy-Acetylene). R. Granjon and P. Rosemburg. Translated by D. Richardson. 7th Ed. 8vo. 266 pp. Price, 5s. Charles Griffin & Co., London.

Wireless Telegraphy and Telephony, The Year Book of. 1919. London: The Wireless Press, Ltd., Marconi House, Strand. Pp. cxiv+1160.

Wood: The Preservation of Wood. A. J. Wallis-Taylor. 8vo. 344 pp. Price, $4.00. D. Van Nostrand Co., New York.

Wood: Seasoning of Wood. J. B. Wagner. 8vo. 272 pp. Price, $3.00. D. Van Nostrand Co., New York.

Wool: Information Concerning the Raw Material, Its Preparation, and the Manufactured Products. Frank Ormerod. 12mo. 221 pp. Price, $1.60. Henry Holt & Co., New York

Zinc: A Bibliography on the Roasting, Leaching, Smelting and Electrometallurgy of Zinc. H. L. Wheeler. 8vo. 388 pp. University of Missouri School of Mines and Metallurgy, Rolla, Mo.

Zinc Industry. E. A. Smith. 8vo. 223 pp. Price, $3.50. Longmans, Green & Co., New York.

IX. NEWS AND NOTES

Alcohol. The California Packing Corporation is preparing to manufacture alcohol fuel as a substitute for gasoline at its cannery at Honolulu. Figures show that waste molasses produced on the Islands yearly exceeds 135,000 tons, which can be converted by a new process into more than 9,000,000 gallons of motor fuel. Plants there now have an output of about 1200 gallons of the new fuel daily and its use is proving very successful.

Arnold Hoffman & Co., Inc. vs. Mathieson Alkali Works, Inc. Arnold Hoffman & Company, Inc., are asking damages of $900,000 of the Mathieson Alkali Works, Inc., whose factories are located at Niagara Falls, New York, and Saltville, Va., for alleged breach of contract. It is alleged that Arnold Hoffman & Company, was the defendant corporation's sole distributing agent for the sale of its products which comprise caustic soda, soda ash, bleaching powder, and chlorine. It is alleged that a selling contract was entered into between the parties, whereby the Providence concern was to continue handling the sales agency for a period of three years from December 31, 1919. It is alleged that the Mathieson Company repudiated the contract.

Arsenic. The domestic production of arsenic during 1919 was 5900 short tons as compared with 6400 short tons in 1918.

Imports of arsenic for the first nine months of 1919, were 1389 short tons. It is therefore safe to estimate that the imports for the year will amount to approximately 1550 short tons. Most of the imports were from Canada and Mexico, though some arsenic came into the United States from Belgium and Japan.

The quantity of arsenic available for consumption in 1919 was approximately 7450 short tons as compared with 7170 short tons in 1918. There were no exports either of foreign or domestic arsenic during the first nine months of 1919.

It was reported to the Geological Survey that two domestic companies who produced considerable arsenic in 1918 did not produce in 1919 on account of the low price of arsenic and because of the ease with which supplies could be obtained.

Barrett Co. and National Aniline Co. merger. It is reported that the merger of the Barrett and National Aniline Companies will be effected to permit more economic operation of the two companies.

British Chemical and Dyestuff Trader's Association. A conference was held recently in Manchester, England, to decide upon the establishment of a British Chemical and Dyestuff Trader's Association.

British Chemists' Working Conditions. Average salaries, including bonus.

AGE	INDUSTRY	ASSISTANTS TO PRIVATE PRACTITIONERS	GOVERNMENT SERVICE	MUNICIPAL SERVICE (WHOLE TIME)	TEACHING	AVERAGE
21–24	£268		£256		£184	£250
25–29	345		327	£284	270	328
30–34	435	£289	346	290	291	390
35–39	546		447	360	421	499
40–44	606	484	503	440	400	523
45–49	712	400	545	653	481	592
50–54	883	275	1290	775	653	789
55–59	609		586	531	766	571
60 and over	610		840		888	747

California Institute of Technology. The name of the Throop College of Technology at Pasadena, has been changed to the California Institute of Technology. The training of engineers of the creative or research type is to be given special emphasis. The faculty is being strengthened by many notable additions and it will include among its members Dr. Arthur A. Noyes, Dr. Robert A. Millikan, Dr. Albert A. Michelson, and Dr. Harry Bateman.

Cement. Cement drain tile for alkali soil is recommended by reason of its durability.

Ceramics. Rutgers College is to add to its equipment a first class Ceramic Institute for instruction and research work.

Chandler Medal. The Chandler Medal has been presented to Willis Rodney Whitney, the director of the research laboratory of the General Electric Company.

Citrus Fruits' Research Laboratory. The California Fruit Growers' Exchange has established a research laboratory in Corona, Italy.

Colors. In 1918 Italy manufactured over 3,000,000 pounds per month of mineral colors.

Cork. The Association of Corkwood Manufacturers of Portugal, report that the total world production of corkwood is estimated at 180,000,000 kilos, or 396,832,000 pounds, of which 45 per cent is produced in Portugal, 30 per cent in Spain, 5 per cent in France and Italy, and 20 per cent in Algeria and Tunis. Portugal probably will maintain its position for several years. Forests in Algeria and Tunis, the exploration of which began recently, may produce larger quantities of corkwood in the future. Eventually Morocco will become the first producing country of corkwood in the world.

Corn Products Refining Company's Plant. The Corn Products Refining Company is to erect a new plant near Kansas City in the corn belt, which will materially increase the output of refined products. The cost of the new plant will be in the neighborhood of $7,000,000.

Cotton. Two million spindles are necessary to convert cotton into automobile fabrics.

Dyes. The German Institute for Dye Research is being organized in Dresden with a branch at Chemnitz in the center of the German textile industry, under the direction of Professor Ostwald. The Institute is a national institution, supported by voluntary contributions from dye and textile industries, to maintain the superiority of German dyes.

Dyes. Dr. Chas. H. Herty, editor of the *Journal of Industrial and Engineering Chemistry*, presents some interesting information regarding the activity of Senator Moses of Manchester, N. H., and of Harry S. Knight, of Sunbury, Pa., in opposition to the Longworth Dye Tariff bill. Dr. Herty says in the June, 1920, issue of his journal:

"Speaking of Senator Moses, geography is a strange thing. Whoever would have thought that the opposition to this bill would have brought about so close a union of two towns, Manchester, N. H., and Sunbury, Pa.! Naturally one thinks of Manchester and the great Amoskeag Manufacturing Company when one thinks of Senator Moses. But what about Sunbury, a small Pennsylvania town of 15,000 inhabitants, according to the census of 1910? Doubtless it has grown some since then.

"Our attention was first called to Sunbury by the Report of the Alien Property Custodian which shows (pages 133 and 352) that the Custodian seized 80 per cent of the stock (preferred) of the Susquehanna Silk Mills, Sunbury, Pa., because it was enemy-owned. At Sunbury are located also the Sunbury Converting Works, which we are informed were owned by the Susquehanna Silk Mills. At the Senate hearings a rather violent attack upon the bill was made in the form of a statement filed by the Sunbury Converting Works. Furthermore, among the signers of the rather notorious 'Memorandum in opposition to the purchase by the Government through the Textile Alliance, or other official agency, of dyes, directly from the foreign manufacturers' appeared again the name of the Sunbury Converting Works. Now it appears that both the Susquehanna Silk Mills and the Sunbury Converting Works were represented legally by Mr. Harry S. Knight of Sunbury, Pa., at the time of the seizure by the Alien Property Custodian.

"But we are getting ahead of the story, for we learned that only to-day. To resume—after the bill had received the approval of the Committee, Senator Moses introduced an extensive amendment, which dye manufacturers immediately felt could have no other effect than the destruction of the American dye industry. Fortunately the Tariff Commission studied the amendment and reported to the Finance Committee that it was unworkable. But that isn't the interesting part of the story. In April an extensive reply to the criticism of the Tariff Commission was made by Mr. Harry S. Knight, of Sunbury, Pa. His reply showed such an intimate acquaintance with the Moses amendment that one could easily get the impression that he had written the amendment himself.

"On our journey to Paris last fall we had a delightful ship-companion in

the person of Mr. Harry S. Knight, of Sunbury, Pa. At that time we knew nothing of his interest in dyes. On Tuesday afternoon, we entered the Senate gallery and were surprised to find in the same section our ship-companion, Mr. Knight,—surprised, because we had not associated him for a moment with the Mr. Knight who had replied to the Tariff Commission's criticism. Toward the end of the afternoon Senator Moses left the floor, seemingly somewhat hurried. While leaving he passed near our gallery and motioned toward that part of the gallery where Mr. Knight was sitting. Immediately Mr. Knight rose and the two left the Chamber by different doors but at the same moment. Perhaps it was a mere coincidence. Possibly Mr. Knight had a sudden uncontrollable desire to take a smoke. We know not. There are some who even go so far as to believe that Mr. Knight wrote the Moses amendment."

Dyestuffs. After a brief reference to Senator Moses' amendment to the dye bill, the *American Dyestuff Reporter* says in its leading editorial on May 24, 1920: "Still more interesting as a subject for contemplation this week is recent correspondence from Spain published in *Drug and Chemical Markets* that Germany is about to undertake the operation of certain Spanish dye plants. It should receive the very widest possible publicity at once. The news of the Germans' Hispanic activities goes to show, for one thing, that it is impossible to be too careful. And it again proves that German cunning, which so many opponents of the dye measure would minimize down to the ultimate minim, is quite up to par and functioning normally.

"Presumably, the framers of the Peace Treaty believed that they had effectually closed every possible loophole against Germany's future interference with the development of coal-tar chemical industries in their several countries. But they have all too evidently overlooked a bet, and now the only possible way to 'play it safe' is the adoption of protective legislation of the kind specified in the present unamended dye bill.

"It is not so much a question of thwarting Germany as it is of protecting ourselves. Measures aimed solely at the Fallen Empire will not do. On this particular question, as well as several others where the need is better recognized by our Solons, it is distinctly up to the United States to look out for itself first. Then, if we care to, we shall be in a far better position to be charitable to unfortunate debtor countries."

Dyestuffs. The British Dyestuffs Corporation, Limited, has discovered at their Huddersfield Laboratories the secret of manufacturing Alizarine cyanine green dye on a commercial scale. This green dye was first discovered in Germany at the works of Bayer & Co. in 1894, and was manufactured exclusively by Germany before the war.

Dyestuffs. Ault & Wiborg Company have sold their dye factories at Cincinnati; St. Bernard, Ohio; and Norwood, Ohio, to a Swiss syndicate—The Swiss Company. Those interested in the company are: The Society of Chemical Industry, The Sandoz Chemical Works, and J. R. Geigy. Mr. Ault announces that one of the stipulations made by the Ault & Wiborg Company is that: "Not one mill of German money, directly or indirectly, remotely or otherwise, would or could be used at any time, either in the acquisition or the expansion of the industry."

Dyestuffs. It is estimated by E. I. du Pont de Nemours & Company, that more than 67,500 factories in the United States are dependent to some extent upon supplies of dyestuffs. These include silk, wool, cotton and knitting mills, paper mills, the leather industry and hundreds of other establishments employing more than 2,000,000 workers, and representing investments amounting to $4,000,000,000. The production of these factories is valued at $6,000,000,000, which is one-fourth of the country's total output of manufactured goods.

Dyestuffs. Japan was the best customer of the United States for aniline dyes during 1919, purchasing to the extent of $2,151,191. China took dyes valued at $1,609,060, and British India $1,562,244. Canada paid us $1,015,334, and Brazil $773,440. Spain's purchases amounted to $535,383.

Equipment for Gases. The Hercules Engineering Corporation have created a department for the design and construction of special equipment for generating and handling commercial gases.

Forge Shop. Allis-Chalmers have developed one of the most complete forge shops in the United States, and is in a position to meet the strictest requirements of the United States Government, the American Bureau of Shipping, Lloyds, and the American Society of Testing Materials.

German Chemical Companies. Dividends by German chemical companies are announced as follows: Chemische Fabrik Helfenberg, 15 per cent; C. A. F. Kahlbaum, 25 per cent; Chemical Works, formerly H. Scheidemandel, 15 per cent, and a bonus of 15 per cent. The firm of P. Beiersdorf and Co., in Hamburg, has been transformed into a limited liability company, with a capital of 2,410,000 marks.

German Idea of Chemical Foundation, Inc. *Die Chemische Industrie*, August, 1919, is impressed with the idea that the stock of the Chemical Foundation is so widely distributed and that each stockholder is allowed only two shares of voting stock. The author is impressed with the fact that the patents of the Chemical Foundation are open only to manufacturers who must prove their Americanism and who are able to qualify by their technical ability. The author urges that the development of the Chemical Foundation shall be watched very closely by German interests, as the Foundation represents the shrewdest and most aggressive organization formed abroad against the German chemical industry.

Glauber's Salt. The British Trade Commission at Winnipeg, Canada, reports the discovery of a lake of solid Glauber Salt. It covers one hundred acres and contains approximately 2,000,000 tons which analyzes 95 per cent pure.

Glauber's Salt. An estimate of precipitated Glauber's salt in some of the Siberian lakes is as follows: (1) The Great Marmyshansk Lake—144,000,000 poods (2,600,000 short tons) of crystalline salt ($Na_2SO_4 10H_2O$) and 22,000,000 poods (397,210 short tons) of evaporated Glauber's salt; (2) Little Marmyshansk Lake—25,000,000 poods (451,400 short tons) of crystalline salt; (3) Lake Tuskal (Minusinsk district) up to 100,000,000 poods (1,805,500 tons) of crystalline salt; (4) Lake Varche (Minusinsk district)—up to 100,000,000 poods (1,805,500 tons) of precipitated crystalline salt and an enormous quantity of Glauber's salt in solution.

Imports and Exports of Chemicals. Imports and exports of certain chemicals as reported by the Bureau of Foreign and Domestic Commerce, for January, 1920, and the figures for January, 1919, as finally revised, are as follows:

Exports of chemicals

	Jan., 1919	Jan., 1920
	pounds	*pounds*
Acids:		
Carbolic	229,497	440,832
Nitric	49,411	13,270
Picric	22	5,567
Sulphuric	1,067,763	1,768,749
Calcium acetate	55,765	3,632,782
Calcium carbide	2,286,388	736,959
Calcium chloride	1,579,847	2,983,782
Copper sulphate	2,847,199	346,947
Potassium chlorate	410,979	409,154
Soda:		
Caustic	17,402,125	14,180,004
Sal soda	1,453,780	552,193
Soda ash	15,034,056	5,676,972
Sodium silicate	2,008,597	1,771,143
	value	*value*
Dyes and dyestuffs	$2,318,061	$1,449,153

Imports of chemicals

Calcium acetate and chloride (crude), carbide and nitrate	11,260,828	5,684,135
Dyes	216,952	539,144
Gums	4,694,962	12,328,990
Potassium carbonate, including crude or black salts	120,953	1,289,938

Insurance. The North British & Mercantile Insurance Company of New York, The Commonwealth Insurance Company of New York, The Pennsylvania Fire Insurance Company, of Philadelphia, The Mercantile Insurance Company of America, also of New York, have established Departments of Chemical Risks.

Italy's Acid Output. Italy produces approximately 40,000,000 pounds of hydrochloric acid annually; 15,000,000 pounds of nitric acid monthly; 100,000 pounds of sulphuric acid monthly; 300,000 pounds of citric acid monthly; 50,000 pounds of lactic acid monthly.

Japanese Chemical Industry. During 1919 the chemical industry in Japan spent more money in the extension of its works than any other industry. Forty-seven factories were enlarged and 33,957,000 yen were added to the authorized capital of chemical companies. Of the 213 manufacturing companies which went out of business during the year, 57 were chemical works with total capitalization 26,638,000 yen.

Laboratories. In the United States there are about 275,000 manufacturing concerns. Less than one-fourth of one per cent have laboratories of any kind. Not over one-eighth of one per cent have laboratories worth mentioning. About one hundred in all have thoroughly equipped research laboratories.

Machinery Exhibit. A permanent exhibit of products of fifteen non-competitive machinery manufacturers has been opened by the Allied Machinery Company of America, at Centre and Walker Streets, New York City.

Magnesium Chloride. The Dow Chemical Company manufactures large quantities of fused magnesium chloride.

Marble. The marble deposits in central Ontario are of immense magnitude, running for hundreds of feet without a flaw. The strata lies in a vertical position and can be worked with great economy.

Marden, Orth & Hastings. Marden, Orth & Hastings of New York City have separated the sales department of coal-tar intermediates from the main company, and incorporated under the name of Calco Chemical Company.

Mathematicians. Dantzig, Pheiffer & Ritt, consulting mathematicians, undertake to handle all problems arising in industry for the solution of which the knowledge of a mathematical specialist may be necessary. Their offices are located at 500 West 116th Street, New York.

Mellon Institute. Association Fellowships of the Mellon Institute.

	COMPANIES	FOUNDATION SUM
Leather belting	40	$4900
Refractories	84	7000
Canning	71	6000
Leather soling	60	3500
Magnesia products	4	6000
Asbestos	10	3500
Fiber board containers	20	3000
Insecticides	9	3500
Laundry	2500	5000

Mellon Institute. Industrial fellowships of the Mellon Institute.

MARCH TO MARCH	NUMBER OF FELLOWSHIPS	NUMBER OF FELLOWS	AMOUNTS CONTRIBUTED
1911–1912	11	24	$39,700
1912–1913	16	30	54,300
1913–1914	21	37	78,700
1914–1915	21	32	61,200
1915–1916	36	63	126,800
1916–1917	42	65	149,100
1917–1918	42	64	172,000
1918–1919	47	77	238,245

Minerals, Canadian. Canada produces 90 per cent of the nickel mined in the world, a large portion of the silver and 85 per cent of the asbestos. Canada contains the largest known gold mine and possesses vast amounts of copper. Such rich deposits of sulphide-ore have been discovered that the ore is profitably hauled sixty miles for shipment by railway.

National Research Council. The Carnegie Foundation have made a grant of $5,000,000 to the National Research Council.

Nichols Medal. The Nichols Medal of the American Chemical Society has been awarded to Dr. Irving Langmuir of Schenectady.

Nitrogen. Arnold Hoffman & Company, Providence, R. I., announces plans for building a plant to manufacture ammonia from nitrogen taken from the air.

Nitrate. The entire production of nitrates in Germany is under the control of the Stickstoff Syndikat, with headquarters at Berlin. Both the Haber and cyanamide methods are used for fixation of nitrogen. The Haber plants are extensive and are located at Merseburg and Ludwigshafen. War-time developments have made Germany entirely independent of Chile, and not only will she supply her own requirements, but proposes to export fixed nitrogen as soon as her own needs are fully covered. All questions of export and import are determined by the Stickstoff Syndikat.

Olive Oil. The total production of olives in Spain during 1919 amounted to 1,813,100 metric tons, compared with 1,403,831 tons in 1918, and 2,207,700 tons in 1917. The oil yield in 1919 amounted to 336,393 metric tons, compared with 255,202 tons in 1918, and 427,838 tons in 1917. Of the total 1919 olive crop 1,761,374 metric tons went to the mills, yielding 19.09 kilos of oil per 100 kilos of olives.

The area devoted to olive culture comprised 1,571,909 hectares (1 hectare = 2.47 acres).

Paints. Sherwin-Williams Company's sales for eight months of the company's fiscal year (1919) amounted to $42,870,734.87, an increase of $15,020,996.86 over the corresponding period of the previous year.

Patents. The Chemical Foundation, which secured title to the former German-owned patents, copyrights and abstracts, continued to license these patents to the consumers throughout the year. A catalogue of these patents was prepared and indexed in such a way that the American manufacturer who desired a license could obtain it with the minimum of trouble and expense. Many producers of intermediate colors and pharmaceuticals availed themselves of this opportunity during the year. In some cases considerable difficulties in working the processes described were encountered. It was believed that many of the descriptions accompanying the patents were incomplete, and in some instances this was actually the case. In many others it was found that the processes were complete but that certain fine variations in the methods of applying them would bring totally different results from those desired. Owing to the versatility and constant efforts of the American chemists, many of these difficulties were removed, and in some instances entirely new processes were developed which proved to be immensely superior to those formerly employed by the German chemists.

Petroleum. The Mexican wells now under exploitation are capable of producing 170,000 cubic meters of petroleum per day, or approximately 1,000,000 bbls.

Phenol. The United States Government sold 30,000,000 pounds of phenol, the entire surplus of the War Department, to the Monsanto Chemical Works of St. Louis.

Phosphate. The reserves of phosphate on Nauru, an island in the Pacific, indicate that 80,000,000 to 100,000,000 tons are available. This supply will meet the demands of the world for 200 years. The quality of phosphate is from 85 to 86 per cent.

Phosphate. Phosphate islands in the Pacific include: Nauru, Ocean, Mekatea, Christmas, Angaur, Surprise, Clipperton, Walpole and Malden.

Physical Laboratory. The British National Physical Laboratory, the scene of researches of which the importance to the British nation during the war cannot be overestimated, had its origin in the Kew Observatory, which was maintained by the Association from 1842 to 1872.

Picric Acid. The War Department has sold to H. C. Couch, president of the Arkansas Light & Power Co., representing a group of business men of Little Rock, Ark., the acid-manufacturing plant near Little Rock, which was constructed by the Ordnance Department during the war for the production of picric acid. The price obtained by the Government for the property was $770,000.

Pittsburgh Station of Bureau of Mines. The new Pittsburgh Station of the Bureau of Mines was dedicated September 29, 1919.

Platinum. It is proposed that Congress shall charter a concern to be known as the United States Platinum Corporation. The operations of the company are to be confined to the public domain in Alaska.

Potash. Alsatian potash.—The Department of Overseas Trade of Great Britain is informed that the estimated output of Alsatian potash in the years 1920, 1921, and 1922 will amount to the following quantities:—1920: 1,320,000 tons, or 220,000 tons of pure potash. 1921: 2,040,000 tons, or 340,000 tons of pure potash. 1922: 2,340,000 tons, or 390,000 tons of pure potash.

Potash. During the years 1918 and 1919 only about 1100 tons of nitrate of potash was produced at Antofagasta, Chili.

Potash. The Dalen Portland cement factory has begun the manufacture of potash. This factory is located at Dalen, near Brevik, in Norway. It was established in 1916, and is capitalized at 3,200,000 crowns ($857,600).

Potash. The Eastern Potash Corporation is building a plant at New Brunswick, N. J., with a capacity to produce 30,000 to 40,000 tons of potash annually from greensands.

Potash. The profits of the German potash industry during 1919 were 17,661,511 marks, as against 2,317,667 marks for 1918. This enables the regular pre-war dividend of 10 per cent to be again paid, as against 7 per cent in 1918. It was also proposed to pay a bonus of 200 marks per share, as against nothing in 1918.

Potash. The United States Government's kelp plant at Summerland, California, is maintained from the returns of its potash output. The four principal by-products of this plant are iodine, salt, ammonia, and bleaching carbon.

Potash Alum. What was said to be the only known potash-alum deposit occurs in commercial quantities in Esmeralda County, Nevada.

Powder Plants. The United States Government powder plant at Nashville, Tennessee, had an estimated cost of $90,000,000. Each of its nine powder lines had a capacity of 100,000 pounds a day. The plant at Nitro, W. Va., was designed to produce 625,000 pounds of powder a day.

Pulp. The Chicago newspapers are now using 5000 spruce trees daily.

Radium. Radium minerals are usually found in places where granite forms at least part of the rock of the country. Carnotite and tyuyamunite furnish the bulk of the world's radium.

Radium. The discovery of radium is reported in the townships of Proudfoot and Butt, near Kearney, Canada, on the Grand Trunk Railway. Other valuable minerals have been found, including vanadium, molybdenum, potash feldspar, muscovite, and mica. The rock is of gneiss granite formation, with a pegmatite vein running through it. This pegmatite vein contains the valuable minerals and is found to be from 18 inches to 20 feet thick.

Recovering Copper and Steel. The European technical press estimates that over 3,000,000 tons of copper thrown from artillery in Belgium and France, and 100,000,000 tons of steel per acre, are buried in large districts where heavy bombardment occurred. It is estimated that at least one-third of this metal will be recovered.

Remington Honor Medal. The Remington Honor Medal in Pharmacy has been awarded to Dr. John Uri Lloyd, of Cincinnati.

Removal of Chemical Plants. Removal of large chemical plants on the Kanawha River, centering around South Charleston, West Virginia, has been seriously considered on account of the scarcity of natural gas.

Research Associations in Great Britain. The British Government has organized Research Associations to the number of thirteen in different industries and trades. These industries include sugar, iron, photography, glass, rubber, scientific instruments, portland cement, shale oil, refractory materials and non-ferrous metals.

Royalties to Government Employees. Patent royalties will be allowed to government employees hereafter according to the provisions of a bill passed by the Senate.

Silk, artificial. The DuPont Fibre Silk Company of Wilmington proposes to enter into the manufacture of artificial silk.

Soap. Procter and Gamble will erect a large plant to manufacture soap near San Francisco.

St. Louis as an Iron Center. The United States government has constructed a fleet of nineteen barges and four tow-boats. This equipment has been leased by the Mississippi Valley Iron Company of St. Louis, which will use the fleet for moving coal from Illinois to St. Paul and the Northwest. On return trips the fleet will bring iron ore from mines in Minnesota.

Sugar. The American Sugar Refining Company will construct a sugar refining plant near Baltimore, at an estimated cost of $8,000,000.

Sulphur. The Louisiana sulphur beds, containing pure sulphur deposits, are 500 feet below quicksand beds.

Sulphuric Acid. The largest sulphuric acid plant in the world is in Ducktown, Tennessee. The acid is made from smelter smoke. One thousand tons of sulphuric acid are produced a day.

Synthetic Indigo. A large development was noted during the year in the production of synthetic indigo. This product, which the Germans boasted could never be made in the United States, was produced in sufficient volume to take care of practically all the demands of domestic consumers, and at the close of the year some export business in it was reported. Vat dyes were still in the experimental stage at the close of the year. An enormous amount of time, money and energy had been expended on them, but up to the end of 1919 results on a commercial scale had not been achieved. It was believed, however, that American vat dyes would be on the market in sufficient supply to take care of the domestic consumers before the middle of 1920. One large producer had perfected eight of these shades at the close of the year, but they were not sufficiently standardized to allow of their being offered commercially. In

fact when the American dye commissioner went abroad to purchase supplies it was with the understanding that not more than a six months' supply would be purchased, as domestic vat dyes would undoubtedly be produced on a commercial scale within that time.

Synthetic Resin. The Barrett Company are producing a synthetic resin called cumar. It will have a valuable use in molded insulation work on account of its dielectric properties.

TNT. The War Department disposed of 29,000,000 pounds of TNT within eleven months after the armistice.

United Drug Co. The directors of the United Drug Company formally approved the purchase of Boots, Ltd., of England. The United Drug Company paid cash for the business and to finance the purchase a new company has been formed, known as Liggett's International, Ltd., Inc. It will be owned by the United Drug Company. The Boots' business will take over the English stores already owned by the United Drug Company, the United Drug Company, Ltd., of Canada, and the Liggett's Ltd., of Canada.

Western Chemical Manufacturing Co. The General Chemical Company have purchased a controlling interest in the Denver works of the Western Chemical Manufacturing Company. The physical valuation of the property is about $2,500,000.

"Wet Process" Mill. The Olympic Portland Cement Company, Ltd., Bellingham, Washington, have built the first "wet process" mill in this country. The present capacity is 2000 barrels a day.

Zinc Oxide and Lithophone. The New Jersey Zinc Company are constructing additional zinc oxide and lithophone plants in Pennsylvania and Colorado, to meet the growing demand for these products.

ADVERTISEMENTS

ALPHABETICAL LIST OF ADVERTISERS

	PAGE
Allen, Lucius E.	54
Abbé Engineering Co.	12
Abbe, Paul O.	4
Abernethy, John F.	57
Ainsworth & Sons, Wm.	36
American Platinum Works	34
American Process Co.	26
American Radio & Research Corp.	53
Angel & Co., Inc., H. Reeve	27, 46
Baker & Co., Inc.	35
Bartlett & Snow Co., The C. O.	Faces Contents
Beach-Russ Co.	12
Becker, Inc., Christian	37
Beckman & Linden Engineering Corp.	55
Benjamin, George Hilliard	56
Biggs Boiler Works Co., The	9
Bischoff & Co., Inc., C.	47
Bishop & Co. Platinum Works, J.	34
Boyajian, S. K.	54
Buffalo Foundry & Machine Co.	58–61
Bureau of Chemistry, New York	55
Burgess Laboratories, C. F.	56
Central Scientific Co.	51
Chemical Construction Co.	22
Codd Co., E. J.	26
Connersville Blower Co., The	18
Contact Process Co.	46
Cooper & Co., Charles	46
Corcoran, Inc., A. J.	57
Corning Glass Works	33
Daigger & Co., A.	36, 47
Dearborn Chemical Co.	48
Defender Automatic Regulator Co.	Faces Title Page
Dermatological Research Laboratories	56
Detroit Heating & Lighting Co.	52
Digestive Ferments Co.	Faces How to Use Annual Chemical Directory
Dixon Crucible Co., Joseph	27
Doerr Glass Co., Inc.	32
Drake, Bryant S.	53
DuPont de Nemours & Co., E. I.	40–41
Duriron Castings Co.	16
Edgertyn Aniline Corp.	Faces General Information
Eimer & Amend	2d Cover
Engle, Robert H.	53
Fabricated Steel Products Corp.	27
Fairlie, Andrew M.	54
Fort Worth Laboratories, The	55
Fraser Laboratories	54
Fuller-Lehigh Co.	6–7
Geisler, Joseph F.	56
General Ceramics Co.	31
Gignoux Frères & Barbezat	39
Glebovitch, A.	55
Gravelle, Philip O.	54
Griebel Instrument Co.	32
Griffin, James H.	55
Hahlweg, George P.	56
Hauser Stander Tank Co.	20
Hershey Co., Ltd., Milton	56
Heller & Merz Co., The	Faces General Information
Hepworth Co., S. S.	19
Hinrichs, Carl	53
Hochstadter Laboratories	56
Howard Wheat & Flour Testing Laboratory, The	54
Hunt & Co., Robert W.	56
Independent Salt Co.	48
Industrial Testing Laboratories	53, 56
International Cooperage Co., Inc.	57
International Equipment Co.	50
Jacoby, H. E.	55
Jones, George P.	56

ALPHABETICAL LIST OF ADVERTISERS (*Continued*)

PAGE

Kewaunee Mfg. Co. 29
Knight, Maurice A. 30
Koven & Brother, L. O. 10
Kraus Research Laboratories, Inc. 56

Laucks, I. F. 55
Lawall, Charles H. 55
Ledoux & Company 55
Leo, Herbert T. 56
Login & Son, B. 52
Long, C. F. 54
Lungwitz, Emil E. 23

Mantius, Otto 56
Marvin-Davis Laboratories, Inc. 54
McElroy, K. P. 56
Meade & Co., Richard K. 53
Miles, George W. 53
Moore & Co., W. E. 53
Mosso Laboratories, C. A. 52

Nassau Valve & Pump Corp. 5
National Aniline & Chemical Co. Inc. ..42–45
New Jersey Testing Laboratories 55
New York Testing Laboratories 53
Nickle, Frank H. 53

Pacific Coast & Borax Co. 46
Parker, C. L. 53
Pease Co., The C. F. 28
Perry Testing Laboratory 54
Pfaudler Co., The 11
Philadelphia Textile Machinery Co.
Faces 2d Cover
Philipp, Herbert 54
Picard Laboratories, The 54
Pike, Robert D. 54
Pitkin, Inc., Lucius 55
Precision Testing Laboratories 53
Powhatan Mining Co. 50

PAGE

Riverside Boiler Works, Inc. 22

Saarbach Laboratories, Inc. 56
Sadtler & Son, Samuel P. 55
Sargent & Co., E. H. 49
Scott & Co., Ernest 4th Cover
Schwartz Sectional System 28
Sharples Specialty Co., The 55
Shilstone, Inc., Herbert M. 55
Shimer & Son, Porter W. 54
Snowden, R. R. 54
Sociedad Anonima Monegal 38
Sperry & Co., D. R. 24
Stillwell Laboratories, The 54
Sturtevant Mill Co. 17
Swenson Evaporator Co. 14

Thomas Co., Arthur H. Faces Chapter I
Thomas, Coblentz & Temple 56
Tolhurst Machine Works 21
Turner, Halsey Co. 25

Unger, John S. 55
United Lined Tube and Valve Co. 8

Volvox Machine Co., Inc. 57

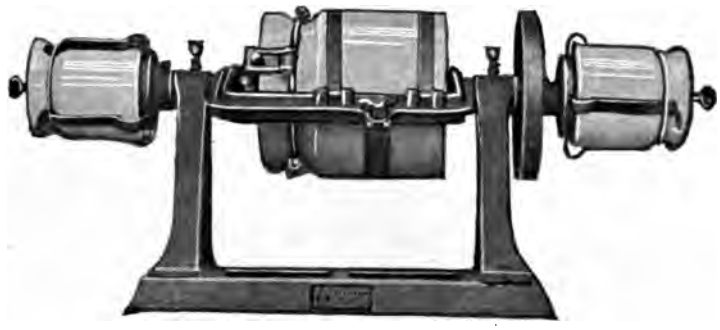
Wahl-Henius Institute 54
Water Purification Laboratories 53
Weil, Charles L. 53
Werner & Pfleiderer Co. Inc.
Faces Publisher's Foreword
Western Gas Construction Co., The 13
Western Stoneware Co. 32
Westhoff, F. W. 53
Wiley & Co. Inc. 55
Wills, J. Lainson 53

Zaremba Company 15

Paul O. Abbé Inc.

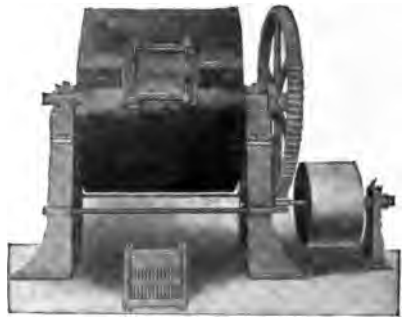
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"Chemetal" valves are made of high grade antimonial lead of ample thickness in the vital parts and strongly re-inforced by ribs to prevent breakage of flanges by rough handling or in actual use.

"Chemetal" valves can be furnished in all standard sizes in the following patterns:—

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Also check valves of the vertical, horizontal and angle type.

Valve seats are made extra large to insure long life; brass valve stems are covered with special hard "Chemetal;" stuffing boxes are made extra large and also lined with lead. All valves are of the rising stem type; but the spindle will only move up and down but not turn. Stuffing boxes may be repacked with valves under pressure by turning valves wide open.

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Special valves made to order.

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"Chemetal" Centrifugal Pumps are built in three sizes with capacities of from 30 to 300 gallons per minute.

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The mixture used for these vessels is the result of experiments conducted jointly with one of the largest chemical companies of the world. No retorts are removed from mold until cold. They can be furnished either of the vertical or horizontal type.

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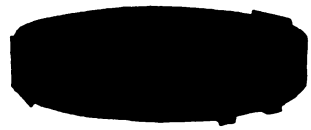
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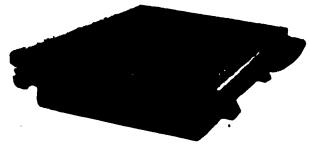
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These include boring mills that will machine castings up to 17′ 5″ diameter x 10′ high, planer 6′ x 22′, radial drills, vertical and horizontal facing machines, large lathes, etc.

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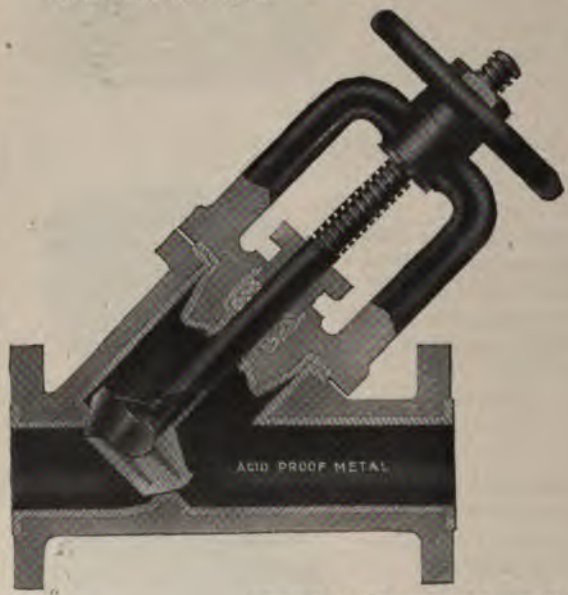
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Hard Lead Centrifugal Acid Pumps
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Our acid-resisting valves are heavily lined throughout with a special acid-resisting alloy, and the seats made of a composition which, being harder than lead, is better adapted to withstand the cutting or wear likely to occur at this point.

These valves being constructed of iron and brass, same as ordinary valves, except as regards the interior, make the strongest acid valves on the market. They are not liable to be broken in transportation, during installation or in actual use, as is the case with valves made wholly of lead composition metal, which is brittle and easily broken, particularly at the flanges.

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"United" Pipe, as its name implies, is a tube of either lead, pure block tin, brass or copper, thoroughly and inseparably united throughout its entire length to an outer tube of wrought iron, steel, etc.

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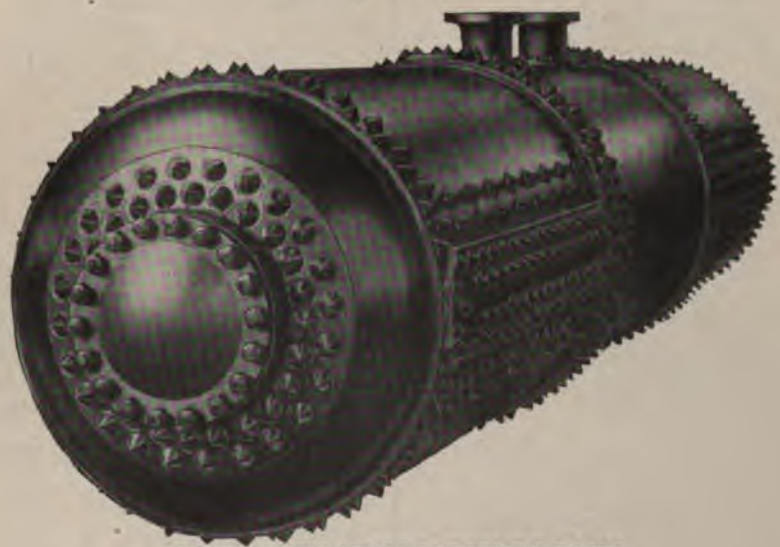
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Drinking Glass Sterilizers
Drying Apparatus
Exhaust Manifolds
Extractors
Filter Presses
Fruit Washers
Galvanized Tanks
Gasoline Tanks
Gasometers
Glass Kilns
Glass Sterilizers
Glue Dissolvers
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Kilns
Lead Lined Tanks
Malt Tanks
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Glass Enameled Steel



PFAUDLER JACKETED STILL

Glass Lined Steel. Tapering Gooseneck. Jacket and enameled body of still are welded into one piece; top head bolted on and fitted with sight glasses; manhole cover secured by either swing bolts or through bolts. Tapering, enameled gooseneck bolted to welded-on flanged nozzle in head. Flanged or threaded enameled outlet through stuffing box in bottom of jacket. Various sizes and capacities.



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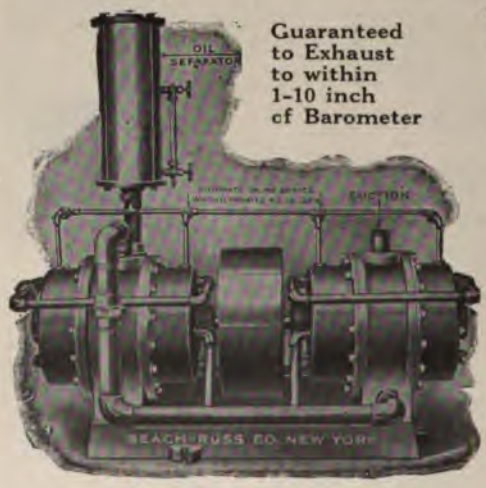
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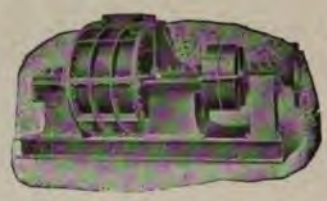
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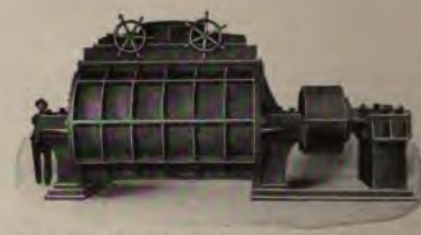
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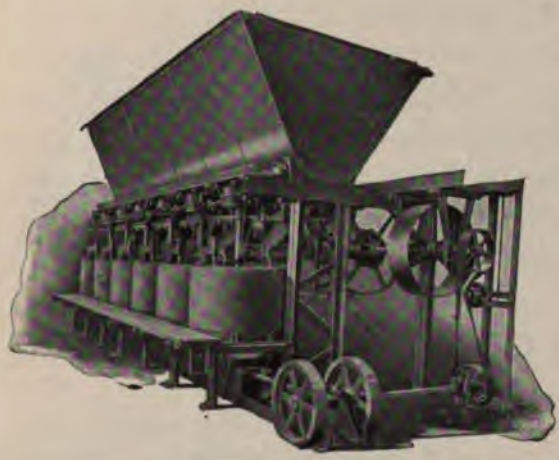
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Type of Press	30	150	250	450	850	900*	1300*
Floor Space Occupied	2x6 ft.	4x14 ft.	5x21 ft.	6x23 ft.	7x34 ft.	6x38 ft.	7x38 ft.
Size of Press Shell	20x36 inches	30x72 inches	40x108 inches	48x120 inches	60x168 inches	48x120† inches	60x108† inches
Capacity of Shell } Cu. Ft.	5	32	75	120	275	120†	177†
Capacity of Shell } Gallons	40	240	560	900	2050	900†	1325†
Number of Leaves	4-5	4-9	6-8	6-10	8-12	6-10†	6-12†
Filter Area Square Feet	21-30	60-130	180-250	260-450	600-1050	520-900	600-1300
Weight of cake per cycle—Cake 1½"—100 lbs. per cubic foot	200	1000	2000	5000	12000	12000	15000
Average Cake Tonnage per 24 hrs.		5-10	20-40	50-100	150-250	200-500	200-800
Weight of Press, lbs.	640	3500	6540	11000	19000	21000	34000

* Twin Units. † One Side Only.

Average capacities are approximate and vary with physical characteristics of the solids to be filtered.

Bring your filtration troubles to us. Our engineers are at your service at any time.

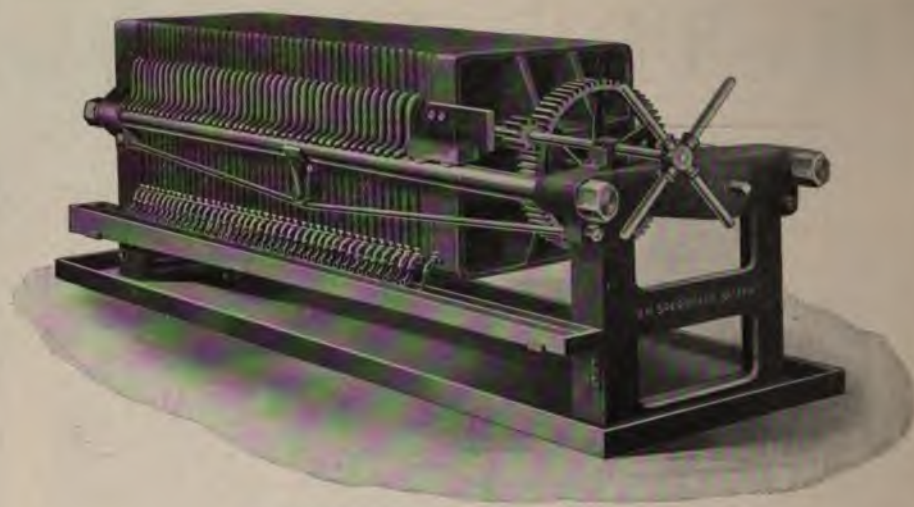
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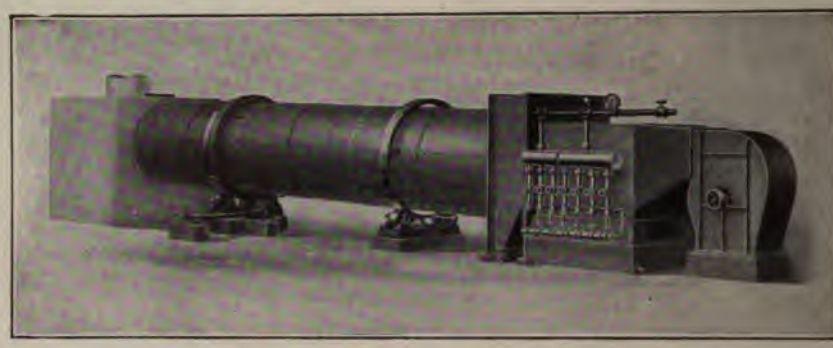
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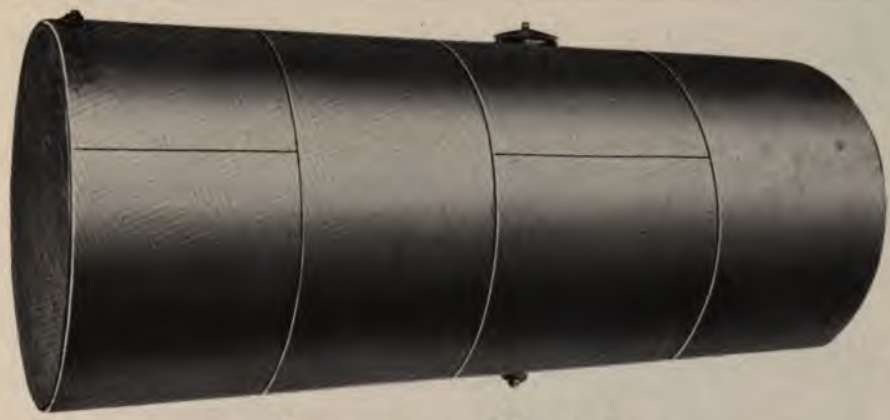
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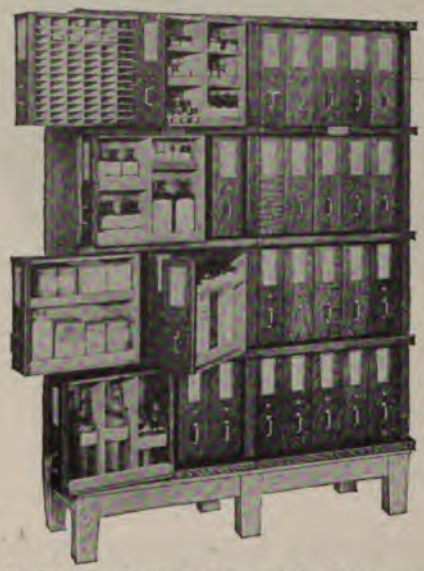
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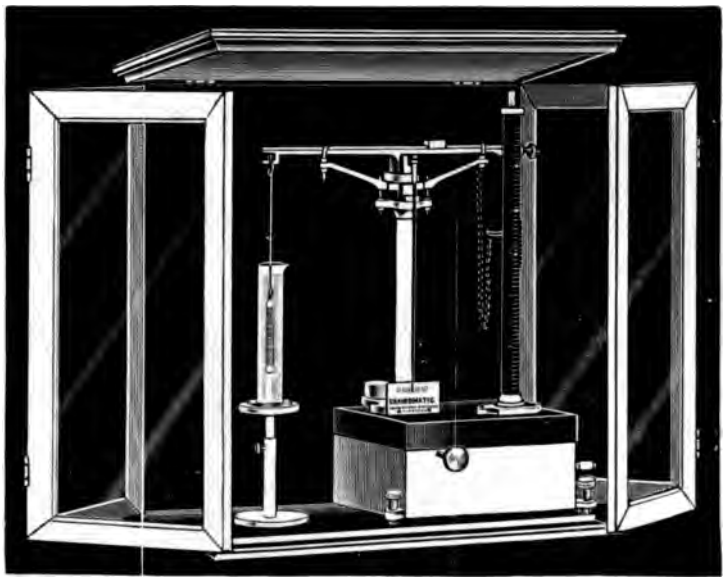
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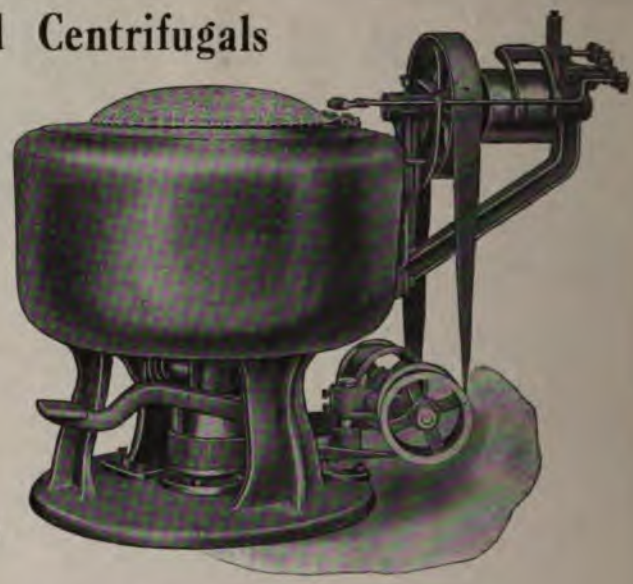
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